

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C.

August 6, 1936.

Prof. M. L. Fernald,
Curator of Gray Herbarium,
Harvard University,
Cambridge, Massachusetts.

Dear Professor Fernald:

Mr. Morton has prepared the final report of Dr. Skutch's Costa Rican collection of which you purchased a set, as follows:

- 2383. *Skutchia caudata* Pax & Hoffm. Gen. & sp. nov. type.
- 2386. " " " "
- 2387. *Holtonia myriantha* Standl. New to North America.
Det. Standley.
- 2539. *Ladenbergia calycina* (Wedd.) Standl. New to
North America. Det. Standley.

Correction.

- 2489. *Apinagia myriophylla* Wedd. Det. C. V. Morton
(not Maranthrum Schiedeanum)

Sincerely yours,

Ellsworth P. Killip

Ellsworth P. Killip
Associate Curator
Division of Plants.

98
A. F. Skutch
Costa Rica



Costa Rica Plants collected by Alexander F. Skutch, 1935-36.

Lichens identified by C. W. Dodge, Pteridophytes by William R. Maxon, Gramineae by Mrs. Agnes Chase, Acanthaceae by E. C. Leonard, Bromeliaceae by Lyman B. Smith, Passiflora, Cordia, and Urticaceae by E. P. Killip, Melastomaceae by H. A. Gleason, and the remainder by C. V. Morton.

(Groups still to be reported on are the mosses, Orchidaceae, Piperaceae, Apocynaceae, Compositae, and 2 numbers each of Rubiaceae and Euphorbiaceae)

Mos. checked "—" are in vol. 1. G. H.

- 2144. *Pavonia dasypetala* (Turcz.) Standl.
- 2146. *Begonia cuspidata* C. DC.
- 2149. *Vittaria filifolia* Féé
- 2150. *Vittaria stipitata* Kunze
- 2151. *Polypodium chnoodes* Spreng.
- 2152. *Asplenium auritum* Sw.
- 2153. *Polypodium pectinatum* L., sens. lat.
- 2154. *Asplenium fragrans* Sw. (Reduced form)
- 2155. *Lasiacis scabrior* Hitchc.
- 2159. *Stictina andensis* Nyl.
- 2160. *Trichomanes polypodioides* L.
- 2161. *Hemitelia multiflora* (J. E. Sm.) R. Br.
- 2162. *Trichomanes rigidum* Sw.
- 2163. *Polypodium plicatum* Maxon, sp. nov.
- 2164. *Leptogium Standleyi* Dodge
- 2165. *Psychotria involucrata* Sw.
- 2166. *Salpichlaena volubilis* (Kaulf.) J. Sm.
- 2167. *Lasiacis procerrima* (Hack.) Hitchc.
- 2168. *Solanum diversifolium* Schlecht.
- 2169. *Hyptis* sp.
- 2171. *Funastrum clausum* (Jacq.) Schltr.
- 2172. *Hyptis suaveolens* Poit.
- 2173. *Tibouchina Bourgaeana* Cogn.
- 2177. *Valeriana mikaniae* Lindl.
- 2178. *Ardisia compressa* H.B.K.
- 2180. *Danaea nodosa* (L.) J. E. Sm.
- 2181. *Dryopteris falcata* (Liebm.) C. Chr.
- 2182. *Saccoloma inaequale* (Kunze) Mett.
- 2184. *Miconia serrulata* Naud.
- 2185. *Salvia hyptoides* M. & G.
- 2186. *Miconia dodecandra* (Desr.) Cogn.
- 2188. *Cxypetalum riparium* H.B.K.
- 2189. *Lasiacis ruscifolia* (H.B.K.) Hitchc.
- 2190. *Henriettella tuberculosa* D. Sm.
- 2191. *Calyptrella cyclophylla* D. Sm.
- 2193. *Monnieria sylvatica* C. & S.
- 2194. *Manettia coccinea* (Aubl.) Willd.
- 2195. *Centrosolenia costaricana* Morton, n. sp. type.
- 2196. *Centropogon mutans* Pl. & Oerst.

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- 2197. *Dioscorea remota* Morton n. sp., type
- 2200. *Pteris pungens* Willd.
- 2203. " *biaurita* L.
- 2204. *Begonia filipes* Benth.
- 2205. *Borreria ocyoides* (Burm.) DC.
- 2206. *Lasiacis Standleyi* Hitchc.
- 2210. *Phyllonoma ruscifolia* Willd.
- 2211. *Clematis dioica* L.
- 2212. *Hedyosmum calloso-serratum* Oerst.
- 2213. *Oplismenus Burmanni* (Retz.) Beauv.
- 2214. *Panicum pulchellum* Raddi
- 2215. *Oplismenus hirtellus* (L.) Beauv.
- 2216. *Selaginella eurynota* A. Br.
- 2217. *Lycopodium cernuum* L.
- 2218. *Paspalum conjugatum* Berg.
- 2220. *Siparuna nicaraguensis* Hemsl.?
- 2221. *Ichnanthus pallens* (Sw.) Munro
- 2222. " " " "
- 2223. *Scleria melaleuca* C. & S.
- 2224. *Pteris biaurita* L.
- 2225. *Ipomoea syringaeifolia* Meissn.
- 2226. *Lasiacis oaxacensis* (Steud.) Hitchc. form
- 2227. *Rheedia edulis* Tr. & Pl.
- 2228. *Cephaelis tomentosa* (Aubl.) Vahl
- 2229. *Lindsaea horizontalis* Hook.
- 2231. *Coccocypeulum hirsutum* Bartl.
- 2232. *Pterolepis trichotoma* (Rottb.) Cogn.
- 2233. *Lepidagathis alopecuroidea* (Vahl) R. Br.
- 2234. *Desmodium adscendens* Sw.
- 2235. *Cyperus diffusus* Vahl
- 2237. *Casearia sylvestris* Sw.
- 2238. *Desmodium intortum* Mill.
- 2240. *Pteris mollis* Christ.
- 2241. *Lindsaea quadrangularis* Raddi
- 2244. *Parmeliella pannosa* Sw.
- (2245. *Trichomanes punctatum* Poir.?
- (2246. *Begonia glabra* Aubl.
- 2249. *Trichomanes Galeottii* Fourn.
- 2250. *Helicocarpus excelsior* Morton n. sp. type
- 2251. *Viburnum costaricanum* (Oerst.) Hemsl.
- 2254. *Olyra lateralis* (Presl) Chase
- 2255. *Coccocypselum canescens* Willd.
- 2256. *Cissus cardiophylla* Standl.?
- 2259. *Cochlidium rostratum* (Hook.) Maxon
- 2260. *Clidemia rubra* (Aubl.) Mart.
- 2261. *Dioclea macrantha* Ducke
- 2262. *Miconia pteropoda* Benth.
- 2263. *Barbiera pinnata* (Pers.) Baill.
- 2264. *Rubus trichomallus* Schlecht.
- 2265. *Hemitelia choricarpa* Maxon
- 2266. *Helicocarpus excelsior* Morton
- 2267. *Gouania lupuloides* (L.) Urban?
- 2268. *Malavaviscus arboreus* Cav. sens. lat.
- 2269. *Melochia lupulina* Sw.

- 2270. *Ipomoea purga* (Wender.) Hayne
- 2271. *Eleocharis interstincta* (Vahl) R. & S.
- 2273. *Polygonum punctatum* Ell.
- • 2275. *Vismia ferruginea* H.B.K.
- • 2278. *Psychotria brachiata* Sw.
- • 2279. *Struthiopteris exaltata* (Fée) Brodh.
- 2280. *Polytaenium brasiliandum* (Desv.) Benedict
- 2284. *Trichomanes Kraussii* Hook. & Grev.
- 2285. *Asplenium pseudoerectum* Hieron. (Not distributed)
- 2286. " " " " "
- 2289. *Trichomanes capillaceum* L.
- 2291. *Anthurium* sp.
- • 2292. *Lippia myriocephala* C. & S.
- 2294. *Monocardia violacea* Pennell
- 2295. *Trismeria trifoliata* (L.) Diels
- 2296. *Anemia phyllitidis* (L.) Sw.
- • 2297. *Dicliptera acuminata* Juss.
- • 2298. *Cuphea infundibulum* Koehne
- 2299. *Nephrolepis pendula* (Raddi) J. Sm.
- • 2300. *Calliandra portoricensis* (Jacq.) Benth.
- 2301. *Coix lacryma-jobi* L.
- 2302. *Polystichum platyphyllum* (Willd.) Presl
- 2303. *Dryopteris Tonduzii* (Christ) C. Chr.
- 2304. *Asplenium Otites* Link
- 2305. *Blechnum occidentale* L.
- 2306. *Adiantum tetraphyllum* H. & B. (sens. lat.)
- 2307. *Hemionitis palmata* L.
- • 2308. *Acacia angustissima* (Mill.) Kuntze
- • 2309. *Sida urens* L.
- 2311. *Pilea pubescens* Liebm.
- 2313. *Hymenophyllum ciliatum* Sw.
- 2315. *Trichomanes pyxidiferum* L. (verum)
- 2318. *Euphorbia graminea* Jacq.
- 2319. *Cyclanthera Tonduzii* Cogn.
- • 2320. *Myriocarpa izabalensis* (D. Sm.) Killip
- • 2321. " " " " "
- 2325. *Salacia praecelsa* (Miers) Griseb.
- 2327. *Scutellaria glabra* Leonard
- 2328. *Asplenium fragrans* Sw. (Reduced form)
- 2329. *Diplazium* sp., near *D. striatum* (L.) Presl
- 2330. *Dryopteris Linkiana* (Presl) Maxon
- 2331. " *exculta* var. *guatemalensis* (Baker) C. Chr.
- 2332. *Selaginella binervis* Liebm.
- 2333. *Diplazium obscurum* Christ
- 2333 1/2 " *grandifolium* Sw.
- • 2336. *Tovomitopsis glauca* Oerst.
- 2337. *Dryopteris subincisa* (Willd.) Urban
- 2338. *Tectaria Sodiroi* (Baker) Maxon
- 2339. *Asplenium abscissum* Willd.
- 2344. *Diplazium subsivaticum* Christ
- 2346. *Centrosema Plumieri* (Turp.) Benth.
- 2347. *Tinantia erecta* (Jacq.) Schl. var.
- • 2350. *Serjania racemosa* Schum.

- 2351. *Polypodium angustifolium* Sw.
- 2353. *Miconia leucantha* Gleason
- 2354. *Asplenium Orites* Link
- 2357. *Asplenium cristatum* Lam.
- 2358. *Carex polystachya* Wahl.
- 2359. *Isachne arundinacea* (Sw.) Griseb.
- 2360. *Tectaria dilacerata* (Kunze) Maxon
- 2361. *Dryopteris equestris* var. *heterolepis* C. Chr.
- 2362. *Cardiospermum grandiflorum* Sw.
- 2364. *Solanum bicolor* Willd.?
- 2366. *Calonyction aculeatum* (L.) House
- 2367. *Rivina laevis* L.
- 2369. *Begonia conchaeifolia* D. Dietr.
- 2370. *Salvia alvajaca* Oerst.
- 2372. *Tovaria pendula* R. & P.
- 2374. *Conostegia* sp.
- 2375. *Miconia reducens* Triana
- 2376. *Chrysochlamys* sp.
- 2377. *Dryopteris* sp. nov.
" *submarginalis* (L. & F.) C. Chr.
- 2379. *Cephaelis elata* Sw.
- 2381. *Miconia* sp.
- 2384. *Ardisia compressa* H.B.K.
- 2385. *Vernonia argyropappa* Buek det. Gleason
- 2388. *Cestrum laurifolium* L'Her.?
- 2389. *Lycopodium tubulosum* Maxon
- 2390. *Aechmea Bernoulliana* Wittm. det. Morton
- 2393. *Polypodium blepharodes* Maxon
- 2394. *Diploschistes* sp.
- 2395. *Graphina* sp.
- 2398. *Banisteria Beecheyana* (A. Juss.) C. B. Rob.
- 2399. *Topoea Durandiana* Cogn.
- 2400. *Mimosa albida* H. & B. var.
- 2403. *Rhynchospora polyphylla* Vahl
- 2407. *Vernonia canescens* H.B.K. det Gleason
- 2410. *Hamelia patens* Jacq.
- 2411. *Polypodium* sp. nov.
- 2412. *Pennisetum bambusiforme* (Fourn.) Hemsl.
- 2413. *Hybanthus attenuatus* (H. & B.) G. K. Schulze
- 2416. *Cestrum scandens* Vahl
- 2417. *Solanum incomptum* Bitt.
- 2418. *Buddleia americana* L.
- 2419. *Begonia carpinifolia* Liebm.
- 2420. *Dombeya lappacea* L'Her.
- 2421. *Polytaenium lineatum* (Sw.) J. Sm.
- 2422. *Sommera grandis* (Bartl.) Standl.
- 2424. *Chaetocalyx latisiliqua* (Desv.) Benth.
- 2426. *Elateriopsis Oerstedii* (Cogn.) Pitt.
- 2427. *Pachyrhizus tuberosus* (Lam.) Spreng.?
- 2428. *Cassia* sp. aff. *Peiranisia longirostrata* B. & R.

- · 2430. *Henriettella* sp. Probably new.
- o 2433. *Catillaria* sp.
- o 2435. *Porina* sp.
- 2436. *Columnea florida* Morton, n. sp. type
- o 2437. *Chamaedorea macrospadix* Oerst.
- · 2439. *Alchornea latifolia* Sw.
- 2440. *Sauvagesia erecta* L.
- · 2441. *Bellucia costaricensis* Cogn.
- · 2442. *Alchornea latifolia* Sw.
- · 2443. *Jussiaea affinis* DC.
- 2446. *Polypodium limula* Christ
- · 2447. *Miconia Mathaei* Naud.
- · 2449. *Psychotria* sp.
- · 2450. *Hieronyma oblonga* var. *Benthamii* (Tul.) Muell. Arg.
- · 2451. *Solanum rugosum* Dunal
- 2453. *Justicia pectoralis* Jacq.
- · 2454. *Wissadula excelsior* (Cav.) Presl
- 2455. *Indigofera mucronata* Spreng.
- · 2457. *Miconia* sp.
- 2458. *Cuscuta corymbosa* var. *grandiflora* Engelm.
- · 2459. *Cestrum* n. sp.?
- · 2461. *Cassia brevipes* DC.
- 2462. *Stylosanthes guianensis* (Aubl.) Sw.
- 2463. *Acisanthera quadrata* Juss.
- 2464. *Aeschynomene sensitiva* Sw.
- 2465. *Tonina fluviatilis* Aubl.
- · 2466. *Jussiaea lithospermifolia* Kunth
- o 2467. *Xyris macrocephala* Vahl
- · 2468. *Desmodium barbatum* (L.) Benth. & Oersted
- 2469. *Rhynchospora cyperoides* (Sw.) Mart.
- · 2470. *Scleria bracteata* Cav.
- · 2471. *Tephrosia nitens* Benth.
- · 2472. " " "
- 2474. *Browallia americana* L.
- · 2476. *Burmeistera suerrensis* Wimm. det. Gleason
- · 2477. *Miconia habrolepis* Standl.
- 2480. *Diplazium atirrense* (Donn. Sm.) Morton
- o 2481. *Cladonia didyma* var. *muscigena* (Eschw.) Vain
- · 2486. *Phaseolus speciosus* H.B.K.
- 2487. *Acalypha tenuicauda* Pax & Hoffm.? ex char.
- · 2488. *Vernonia patens* H.B.K. det. Gleason
- 2489. *Marathrum Schiedeanum* Cham.
- · 2490. *Nectandra villosa* Mez
- 2492. *Doliocarpus dentatus* (Aubl.) Standl.
- · 2493. *Palicourea costaricensis* Benth.
- · 2495. *Marila verapazensis* D. Sm.
- · 2496. *Carica dolichaula* D. Sm.
- · 2497. *Hampea appendiculata* (D. Sm.) Standl.
- · 2498. *Ovomitopsis glauca* Oerst.
- · 2500. *Miconia leucantha* Gleason, n. sp. type
- · 2501. *Allophylus psilospermus* Radlk.
- · 2503. *Miconia* sp.
- · 2505. *Clematis dioica* L.

- 2506. *Machaerium costaricanum* Pitt.
- 2508. *Vochysia ferruginea* Mart.
- 2509. *Cordia glabra* L.?
- 2510. *Simaruba glauca* DC.
- 2511. *Banara guianensis* Aubl. var. ~~2511~~
- 2513. *Miconia* sp.
- 2515. *Brūnellia Skutchii* Morton, n. sp., type
- 2516. *Rhynchosia pyramidalis* Lam.
- 2518. *Inga multijuga* Benth.
- 2519. *Hasseltia mexicana* (Gray) Stendl.
- 2520. *Lacistema aggregatum* (Berg.) Rusby
- 2522. *Tristicha hypnoides* (St. Hil.) Spreng.
- 2524. *Juanulloa Sargii* D. Sm.
- 2525. *Vernonia brachiata* Benth. det. Gleason
- 2526. *Dorstenia chocóiana* var. *integrifolia* D. Sm.
- 2529. *Trichomanes rupestre* (Raddi) v. d. B.
- 2531. *Asplenium laetum* Sw.
- 2532. *Tectaria heracleifolia* (Willd.) Underw.
- 2533. *Cyphomandra costaricensis* D. Sm.
- 2537. *Miconia scorpioides* (C. & S.) Naud.
- 2538. *Hydrangea Skutchii* Morton, n. sp. type
- 2540. *Ichnanthus axillaris* (Nees.) Hitchc. & Chase
- 2541. *Matayba* n. sp.?
- 2542. *Dryopteris espidioides* (Willd.) C. Chr.
- 2543. *Selaginella flabellata* (L.) Spring
- 2544. *Trichilia Oerstediana* C. DC.
- 2546. *Tournefortia bicolor* Sw.
- 2547. *Physcia sorediosa*
- 2548. *Cissampelos pareira* L.
- 2549. *Miconia argentea* (Sw.) DC.
- 2550. *Pitcairnia heterophylla* (Lindl.) Beer
- 2551. *Hymenophyllum fucoides* Sw.
- 2552. *Trichomanes Kraussii* Hook. & Grev.
- 2553. *Guatteria dolichopoda* D. Sm.
- 2556. *Jacobinia macrantha* (Oerst.) Benth. & Hook.
- 2559. *Tillandsia chontalensis* Baker
- 2562. *Boehmeria ulmifolia* Wedd.
- 2563. *Iresine celosia* L.
- 2564. *Iresine frutescens* Moq.
- 2568. *Smilax panamensis* Morong
- 2569. *Cordia alliodora* (R. & P.) Cham.
- 2570. *Ipomoea* sp. aff. *trichocarpa* Ell. Perhaps new.
- 2571. *Jussiaea peruviana* L.
- 2572. *Gilibertia sgonatopoda* D. Sm. Det. A. C. Smith
- 2573. *Aphelandra Sinclairiana* Nees
- 2574. *Blechum ruellioides* Leonard n. sp. type
- 2575. *Croton glabellus* L.
- 2576. *Justicia glabra* (Oerst.) Benth. & Hook.
- 2577. *Leptochilus cladorrhizans* (Spreng.) Maxon
- 2580. *Anthurium trinerve* Miq.
- 2581. *Crotalaria guatemalensis* Benth.
- 2582. *Coneostegia lanceolata* Cogn.

- 2583. *Smilax panamensis* Morong
- 2584. *Chaetoptelea mexicana* Liebm.
- 2585. *Chrysophlamys psychotriaefolia* Hemsl.
- 2587. *Serjania mexicana* Willd.
- 2588. *Solanum Donnell-Smithii* C. & R. Smith
- 2589. *Guatteria* n. sp.?
- 2590. *Hedyosmum calloso-serratum* Oerst.
- 2591. *Besleria acutifolia* Benth.
- 2594. *Clusia odorata* Seem.
- 2595. *Sloanea meianthera* D. Sm.?
- 2596. *Alchornea costaricensis* Pax & Hoffm.?
- 2597. *Dryopteris concinna* (Willd.) Kuntze
- 2598. *Marathrum Schiedeanum* Cham.
- 2599. *Phenax hirtus* (Sw.) Wedd.
- 2600. *Trema canescens* Blume
- 2601. *Allophylus psilospermus* Radlk.
- 2602. *Tradescantia cumanensis* Kunth
- 2603. *Croton draco* var. *hibisciformis* Muell. Arg.
- 2604. *Conostegia* sp.
- 2606. *Blechnum unilaterale* Sw.
- 2607. *Trichomanes pinnatum* Hedw.
- 2609. *Mollinedia Pinchotiana* Perk.
- 2610. *Alchornea costaricensis* Pax & Hoffm.?
- 2613. *Sympomia globifera* L. f.
- 2615. *Nectandra glabrescens* Benth.
- 2616. *Cassia bacillaris* L.
- 2617. *Passiflora vitifolia* H.B.K.
- 2618. *Struthanthus polystachya* (R. & P.) Blume?
- 2619. *Hyptis obtusiflora* Presl
- 2620. *Icica costaricensis* Rose
- 2623. *Conostegia bigibbosa* Cogn.
- 2626. *Anthurium Bakeri* Hook.
- 2628. *Mollinedia Pinchotiana* Perk.
- 2629. *Alternanthera lagurooides* Standl.
- 2630. *Hydrangea Skutchii* Morton
- 2632. *Asplenium formosum* Willd.

U.S.N.M. Jan 29 1936

Costa Rica Plants collected by Alexander F. Skutch, 1935-36.

Supplementary list.

(Note:--All numbers now reported upon excepting 2 Rubiaceae, 2 Euphorbiaceae and 2 Compositae)

Mosses identified by E. Bartram, Orchidaceae by O. Ames, Piperaceae by W. Trelease, Compositae by S. F. Blake, and Apocynaceae by R. S. Woodson.

" = at G.F.
" = at A.H.

- ✓ 2145. *Micromitrium lamprocarpum* (C. M.) Par.
✓ 2148. *Rhacopilum tomentosum* (Sw.) Brid.
- ✓ 2156. *Piper formici-tolerans* Trel. n. sp. type
- ✓ 2157. " *subasperatum* Trel. n. sp. type
- ✓ 2158. " *captum* Trel. n. sp. type
✓ 2170. *Tagetes microglossa* Benth.
- ✓ 2174. *Piper vagans* Trel.
- ✓ 2175. " *linearifolium* C. DC.
- ✓ 2176. *Eupatorium laevigatum* Lam.
- ✓ 2179. *Piper ducis* Trel. n. sp. type
- ✓ 2183. " *marginatibaccum* Trel. n. sp. type
- ✓ 2187. *Oliganthes discolor* (H.B.K.) Sch. Bip.
- ✓ 2192. *Oyedaea verbesinoides* DC.
. ✓ 2198. *Ponthieva racemosa* (Walt.) Mohr
. ✓ 2199. *Peperomia tenuinervis* Trel. n. sp. type
✓ 2202. *Philonotis uncinata* (Schwaegr.) Brid.
✓ 2207. *Calymperes nicaraguense* Ren. & Card. New to Costa Rica.
✓ 2208. *Microthamnium Lehmanii* Besch.
✓ 2209. *Ochrobryum Gardnerianum* Mitt. New to Costa Rica.
- ✓ 2219. *Zexmenia frutescens* (Mill.) Blake
. ✓ 2239. *Ichthyothere scandens* Blake
✓ 2242. *Rhizogonium spiniforme* (Hedw.) Bruch
✓ 2248. *Brachy menium radiculosum* (Schwaegr.) Par. New to Costa Rica.
✓ 2252. *Octoblepharum albidum* Hedw.
- ✓ 2268. *Hymenostephium cordatum* (H. & A.) Blake
. ✓ 2272. *Spilanthes americana* (Mutis) Hieron.
. ✓ 2274. *Mikania micrantha* H.B.K.
✓ 2277. *Oncidium Titania* Schltr.
. ✓ 2281. *Peperomia tecticola* C. DC.
✓ 2282. *Tayloria Moritziana* C. M.
- ✓ 2283. *Piper sagittifolium* C. DC.
✓ 2288. *Peperomia antennifera* Trel. n. sp. type
✓ 2287. *Peperomia gleicheniaeformis* Trel. n. sp. type
✓ 2290. *Piper conceptum* Trel.
- ✓ 2293. " *heterophlebium* Trel. n. sp. type
- ✓ 2310. *Eupatorium odoratum* L.
- ✓ 2312. *Piper sublineatum* Kuntze
- 2314. " *sesquipedale* Trel. n. sp. type

Skutch-Costa Rica

- ✓ 2316. *Lockhartia amoena* Endres & Rchb. f.
✓ 2317. *Piper pileatum* Trel.
—✓ 2317 1/2 *Piper pileatum* Trel.
—✓ 2323. *Allomarkgrafia plumeriaeifolia* Woods. New to North America.
2324. Specimen unidentifiable. Destroyed.
✓ 2335. *Peperomia Jimenezana* (C. DC.) Trel.
✓ 2340. *Peperomia peltiflimba* C. DC.
✓ 2341. *Melanthera deltoidea* Michx.
✓ 2342. *Bidens pilosa* L.
—✓ 2343. *Piper magnilimum* C. DC.
✓ 2345. *Viguiera sylvatica* Klatt.
✓ 2348. *Epidendrum Pseudepidendrum* Rchb. f.
✓ 2349. *Mikania punctata* Klatt.
✓ 2352. *Entodon Hampeanus* C. M.
✓ 2355. *Stenorhynchus speciosus* (Jacq.) L. C. Rich.
—✓ 2356. *Piper carilloanum* C. DC.
✓ 2363. *Mikania guaco* H. & B.
✓ 2365. *Mikania Standleyi* Rob.
—✓ 2371. *Zexmenia virgulta* Klatt.
—✓ 2373. *Piper longepetiolatum* (C. DC.) Trel.
✓ 2380. *Peperomia pseudotetraphylla* Trel.
—✓ 2382. *Otopappus verbesinoides* Benth.
—✓ 2396. *Calea Pittieri* Rob. & Greenm.
✓ 2397. *Pleurothallis stenostachya* Rchb. f.
✓ 2401. *Peperomia ligescens* C. DC.
✓ 2404. *Sematophyllum flavidum* Mitt. New to Costa Rica.
✓ 2405. *Oncidium Rechingerianum* Kränzlin
✓ 2406. *Eupatorium pycnocephalum* Less.
✓ 2408. *Mikania cordifolia* (L.) Willd.
✓ 2409. *Cosmos caudatus* H.B.K.
✓ 2423. *Alomia microcarpa* (Benth.) Rob.
✓ 2425. *Eupatorium solidaginoides* H.B.K.
—✓ 2429. *Baccharis trinervis* (Lam.) Pers.
✓ 2438. *Masdevallia attenuata* Rchb. f.
✓ 2445. " *Laucheana* Kränzlin
—✓ 2452. *Baccharis trinervis* (Lam.) Pers.
✓ 2460. *Eupatorium amygdalinum* Lam.
✓ 2473. *Tristicha hypnoides* (St. Hil.) Spreng.
—✓ 2479. *Piper delectans* Trel. n. sp. type
✓ 2482. *Eupatorium vitalbae* DC.
✓ 2484. *Sobralia pleiantha* Schltr.
✓ 2486. *Scaphiglottis mesocopis* (Endres & Rchb. f.) B. & H. ex Hemsl.
✓ 2491. *Trixis divaricata* (H.B.K.) Spreng. Apparently first North American record.
✓ 2494. *Fissidens pyrenocystis* Card. New to Costa Rica
—✓ 2502. *Senecio schizotrichus* Greenm. n. sp. type
—✓ 2504. *Piper salulatrix* Trel. n. sp. type
✓ 2507. *Neurolaena lobata* (L.) R. Br.
✓ 2512. *Mikania riparia* Greenm.
—✓ 2514. " *Skutchii* Blake, n. sp. type

Skutch-Costa Rica

- ✓ 2517. *Oyedaea verbesinoides* DC.
- ✓ 2521. *Hexisea bidentata* Lindl.
- ✓ 2523. *Peperomia cartagoana* Trel.
- ✓ 2527. *Trichopilia marginata* Henfr.
- ✓ 2528. *Peperomia martagonifolia* C. DC.
- ✓ 2530. *Lepidopilum Skutchii* Bartr. n. sp. type
- ✓ 2534. *Tayloria Moritziana* C. M.
- ✓ 2535. *Philonotis tenella* (C.M.) Besd.
- ✓ 2536. *Eupatorium macrophyllum* L.
- ✓ 2542. *Dryopteris aspidioides* (Willd.) C. Chr.
- ✓ 2555. *Eupatorium elatum* Steetz
- ✓ 2561. " *platyphyllum* Rob.
- ✓ 2565. *Verbesina turbacensis* H.B.K.
- ✓ 2566. *Eupatorium Thieleanum* Klatt
- ✓ 2567. *Brassia Gireoudiana* Rchb. f. & Warsc.
- ✓ 2568. *Oncidium Isthmii* Schltr.
- ✓ 2592. *Vanilla Pfaviana* Rchb. f.
- ✓ 2593. *Sarcorhachis anomala* Trel.
- ✓ 2608. *Gnaphalium attenuatum* DC.
- ✓ 2610. *Alchornea costaricensis* Pax & Hoffm.?
- ✓ 2611. *Piper opinatum* Trel. n. sp. type
- ✓ 2612. " *candalariaeum* C. DC.
- ✓ 2614. *Trixis radialis* (L.) Kuntze
- ✓ 2615. *Mandevilla hirsuta* (A. Rich.) K. Sch.
- ✓ 2624. *Piper hians* Trel. n. sp. type
- ✓ 2625. " *pseudofimbriulatum* Trel.
- ✓ 2631. *Peperomia Alexandri* Trel. n. sp. type

Corrections to previous list.

- ↓ 2229. Reported as *Lindsaea horizontalis* Hook. is a mixture. The second element, *Lindsaea lancea* (L.) Bedd., may be called 2229a.
- ✓ 2368. *Malvaviscus arboreus* Cav. Previously listed as 2268.
- ✓ 2586. *Smilax panamensis* Morong. Previously listed as 2568.
- ✓ 2605. *Nectandra glabrescens* Benth. Previously listed as 2615

Bundles 4134-8

Grey

NOV 16 1936
W.H.A.

Costa Rica Plants collected by A. F. Skutch.

Mosses identified by E. B. Bartram, Pteridophyta by William R. Maxon,
Gramineae by A. Chase, Orchidaceae by O. Ames, Urticaceae by
E. P. Killip, Catopsis by L. B. Smith, Gilibertia by A. C. Smith,
the remainder by C. V. Morton.

Species new to the flora of Costa Rica are indicated by an *

- ✓2634. *Nectandra panamensis* Mez
- ✓2635. *Eleusine indica* (L.) Gaertn.
- ✓2636. *Dioscorea convolvulacea* subsp. *esurientum* Uline
- ✓2637. *Marginariopsis Wiesbaurii* (Sod.) C. Chr. Rare
- ✓2638. *Dioscorea borealis* Morton n. sp. type
- ✓2639. *Elaphoglossum* sp.
- ✓2641. *Lantana camara* L.
- ✓2642. *Cornutia grandifolia* C. & S.
- ✓2643. *Kyllinga odorata* Vahl
- ✓2644. *Cyperus diffusus* Vahl
- ✓2645. " *caracasanus* Kunth
- ✓2647. *Setaria geniculata* (Lam.) Beauv.
- ✓2648. *Sporobolus Poiretii* (R. & S.) Hitchc.
- ✓2649. *Saracha Rothii* (Poir.) Morton
- ✓2650. *Nephrolepis pectinata* (Willd.) Schott
- ✓2651. *Saurauia costaricensis* D. Sm.
- ✓2654. *Burmeistera cyclostigmata* D. Sm.
- 2655. *Cassia caudata* Standl. *
- ✓2656. *Elaphoglossum* sp.
- ✓2658. *Belotia macrantha* Sprague * ex char.
- ✓2660. *Ardisia Skutchii* Morton, n. sp. type
- ✓2661. *Calathea insignis* Peters
- ✓2662. *Pescatoria cerina* Rchb. f.
- ✓2663. *Polypodium serpentinum* Christ
- ✓2664. *Monstera obliqua* (Miq.) Walp.
- ✓2665. *Guarea bullata* Radlk. First flowering collection
- ✓2666. *Frantzia Pittieri* (Cogn.) Pitt.
- ✓2667. *Polypodium truncatulum* Rosenst.
- ✓2668. *Nectandra rectinervia* Meissn.?
- ✓2669. *Helosis mexicana* Liebm.
- ✓2670. *Arrabidaea* sp. Perhaps new.
- ✓2671. *Panicum maximum* Jacq.
- ✓2672. *Cyperus incompletus* (Jacq.) Link
- ✓2673. *Helicteres guazumaefolia* HBK
- ✓2676. *Diastema exiguum* Morton *
- ✓2677. *Callicostella pallida* (Hornschr.) Jaeg.
- ✓2679. *Dryopteris patula* (Sw.) Underw.
- ✓2681. *Xanthosoma pilosum* Koch
- ✓2684. *Xiphidium caeruleum* Aubl.
- ✓2686. *Asplenium serratum* L.
- ✓2688. *Calathea macrosepala* Schum.

Skutch-2

- ✓ 2689. *Lithachne pauciflora* (Sw.) Beauv.
- ✓ 2690. *Costus Skutchii* Morton, n. sp. type
- ✓ 2691. *Richardia scabra* L.
- ✓ 2692. *Casearia sylvestris* Sw. var. vel. sp. nov.
- ✓ 2693. *Cestrum Endresii* Francey ex char.
- ✓ 2694. *Rhacopilopsis trinitensis* (C. M.) E. G. Britt & Dix *
- ✓ 2695. *Rhizogonium spiniforme* (Hedw.) Bruch
- ✓ 2696. *Cissampelos grandifolia* Tr. & Pl.
- ✓ 2698. *Polypodium fraxinifolium* Jacq. sens lat.
- ✓ 2701. *Struthiopteris ensiformis* (Liebm.) Brodsh.
- ✓ 2702. *Antkericum macrophyllum* Baker ex char.
- ✓ 2703. *Sematophyllum loxense* (Hook.) Mitt.
- ✓ 2705. *Gynandropsis speciosa* DC.
- ✓ 2707. *Cordia ferruginea* (Lam.) R. & S. var.
- ✓ 2708. *Solanum synantherum* Sendtn.
- ✓ 2709. *Dioscorea convolvulacea* subsp. *esurientum* Uline
- ✓ 2710. *Elaphoglossum piloselloides* (Presl) Moore sens lat.
- ✓ 2711. *Tetrapteris Schiedeana* C. & S.
- ✓ 2713. *Pleuropetalum Sprucei* (Hook. f.) Standl.
- ✓ 2715. *Asplenium obtusifolium* var. *riparium* (Liebm.)
- ✓ 2719. *Clusia uvitana* Pitt.
- ✓ 2720. *Elaphoglossum* sp.
- ✓ 2721. *Hasseltia floribunda* HBK
- ✓ 2722. *Perrottetia longistylis* Rose vel aff.
- ✓ 2723. *Cissus rhombifolia* Vahl
- ✓ 2725. *Blepharodon mucronatum* (Schl.) Dcne.
- ✓ 2726. *Pavonia rosea* C. & S.
- ✓ 2727. *Inga spectabilis* Willd.
- ✓ 2728. *Solanum aculeatissimum* Jacq.
- ✓ 2730. *Utricularia Endresii* Rchb. f.
- ✓ 2731. *Rynchospora mariusculus* Nees
- ✓ 2732. " *robusta* Boeckl? small form.
- ✓ 2734. *Panicum parvifolium* Lam.
- ✓ 2735. *Scleria microcarpa* Nees
- ✓ 2736. *Cyperus luzulae* (L.) Retz.
- ✓ 2738. *Monophlegma trinervium* (D. Sm.) Piper
- ✓ 2742. *Asplenium alatum* H. & B.
- ✓ 2743. *Chamaedorea pacaya* Oerst.
- ✓ 2745. *Anoectangium euchloron* (Schw.) Mitt.
- ✓ 2746. *Doryopteris palmata* (Willd.) J. Sm.
- ✓ 2747. *Achimenes candida* Lindl. * First collection since the type.
- ✓ 2748. *Gouania lupuloides* (L.) Urban
- ✓ 2749. *Verbena littoralis* HBK
- ✓ 2750. *Dorstenia contrajerva* L.
- ✓ 2752. *Malaxis Parthonii* Morren
- ✓ 2753. *Polypodium anetiooides* Christ
- ✓ 2755. *Mitracarpus hirtus* (L.) DC.
- ✓ 2756. *Mucuna Holtoni* (Ktze) Moldenke
- ✓ 2757. *Machaerium confusum* Morton sp. nov. type
- ✓ 2758. *Banisteria* n. sp.? Fruits needed.
- ✓ 2759. *Borreria laevis* (Lam.) Griseb.
- ✓ 2760. *Polypodium percrassum* Baker val aff.
- ✓ 2761. *Mittenothamnium diminutivum* (Hpe) E. G. Britt.
- ✓ 2762. *Pleiostachya pruinosa* (Regel) Schum.

- 2769 —
- 2763. *Ornithocephalus Tonduzii* Schltr.
 - 2764. *Syrrhopodon Bernoullii* C. M. *
 - ✓2766. *Dicranopteris pectinata* (Willd.) Underw.
 - ✓2767. *Leiphamos lutea* Morton n. sp. type
 - 2768. *Burmannia* n. sp.
 - ✓2769. *Burmannia tenella* Benth. * vel aff.
 - ✓2770. *Lophidium elegans* (Vahl) Presl
 - 2771. *Catopsis apicroides* (C. & S.) Baker
 - 2772. *Rhipidopteris peltata* var. *foeniculacea* (HBK)
 - ✓2773. *Lippia reptans* HBK
 - ✓2774. *Borreria laevis* (Lam.) Griseb.
 - ~~✓2775. *Cestrum sanguineum* D. Sm.~~
 - ✓2776. *Dryopteris brachyodus* (Kunze) Ktze
 - 2777. *Epidendrum paniculatum* R. & P.
 - ✓2778. *Calathea violacea* (Rosc.) Lindl.
 - ✓2781. *Dryopteris nigrovenia* (Christ) C. Chr.
 - 2782. *Psychotria dispersa* Standl.
 - ✓2783. *Vincetoxicum viridiflorum* (Mey.)
 - ✓2786. *Cassia Valerioi* (R. & R.) Morton. Second collection known
 - ✓2787. *Solanum trizygum* subsp. *chiriquianum* Bitt. * ined.
 - ✓2790. *Capsicum macrophyllum* (HBK.) Standl.
 - ✓2792. *Eryngium foetidum* L.
 - ✓2793. *Scoparia dulcis* L.
 - ✓2796. *Elaphoglossum* sp.
 - ✓2797. *Conomorpha peruviana* var. *rostrata* (Hassk.) Mez. * Genus
new to continental North America.
 - ✓2798. *Gilbertia arborea* (L.) March
 - 2800. *Fissidens Garberi* Lesq. & James
 - ✓2801. *Hymenophyllum polyanthos* Sw.
 - ✓2805. *Posoqueria latifolia* (Rudge.) R. & S.
 - ✓2806. *Eugenia* sp. Perhaps new.
 - ✓2807. *Epidendrum pygmaeum* Hook.
 - 2808. *Tetrapteris reticulata* Small * Fruits needed.
 - ✓2809. *Cassia spectabilis* DC.
 - ✓2810. *Euphorbia hirta* L.
 - ✓2811. *Mecardonia procumbens* (Mill.) Small
 - ✓2812. *Cissus cardiophylla* Standl.
 - ✓2813. *Ocotea pedalifolia* Mez
 - ✓2814. *Hecistocheila pumila* (Spreng.) J. Sm.
 - ✓2815. *Polypodium Alfarii* D. Sm.
 - ✓2817. *Oleandra costaricensis* Maxon
 - ✓2818. *Polypodium duale* Maxon
 - ✓2820. *Mandevilla hirsuta* (Rich.) Schum.
 - ✓2821. *Ocotea cuneata* Mez?
 - 2822. *Campylopus porphyreodictyos* (C. M.) Mitt.
 - 2823. *Rhaphidorrhynchium Lindigii* (Hpe) Broth.
 - 2824. *Polytrichum antillarum* Rich.
 - ✓2825. *Stelis* n. sp.
 - 2826. *Polypodium blepharodes* Maxon
 - ✓2827. *Utricularia verapazensis* Morong
 - 2828. *Cordia ferruginea* (Lam.) R. & S. var.

- ✓2829. *Borreria ocymoides* (Burm.) DC.
- ✓2830. *Polypodium subtile* Kunze
- 2831. " *Hombarsleyi* Maxon *
- 2832. " *rosulatum* Christ ex char.
- ✓2833. *Cissampelos grandifolia* Tr. & Pl.
- 2835. *Maranta arundinacea* L.
- 2837. *Campelia zanonia* (L.) HBK
- ✓2838. *Athyrocarpus persicariaefolius* (DC.) Hemsl.
- ✓2839. *Drymonia fimbriata* Morton, sp. nov. type
- 2840. *Polypodium sphenoides* Kunze
- 2842. *Funaria calvescens* Schw.
- 2843. *Taxithelium planum* (Brit.) Mitt.
- ✓2845. *Polytaenium lineatum* (Sw.) J. Sm.
- ✓2847. *Zamia pseudoparasitica* Yates * ex char.
- 2849. *Hypoptygium Tamarisci* (Sw.) Brid.
- 2852. *Dichorisandra hexandra* (Aubl.) Standl.
- ✓2853. *Begonia lignescens* Morton, n. sp. type
- ✓2857. *Hyptis capitata* Jacq.
- ✓2858. *Hemidiodia ocymifolia* (Willd.) Schum.
- ✓2859. *Kyllinga brevifolia* Rottb.
- ✓2860. *Eleocharis retroflexa* (Poir.) Urban
- ✓2861. *Borreria ocymoides* (Burm.) DC. var.?
- ✓2862. *Capsicum viscidum* Standl. * ex char.
- ✓2863. *Urera elata* (Sw.) Griseb.
- ✓2864. *Panicum boliviense* Hack.
- ✓2866. *Hasseltia floribunda* HBK
- ✓2868. *Buettneria catalpaefolia* Jacq.
- ✓2869. *Tetrapteris Schiedeana* C. & S.
- ✓2870. *Monocardia violacea* Pennell
- ✓2871. *Albizzia adinocephala* (D. Sm.) B. & R.
- 2872. *Polypodium blepharodes* Maxon

Omitted from above

- ✓2784. *Jussiaea peruviana* L. aff.
- ✓2787. *Petastoma patelliferum* Miers

Additions and corrections to previous lists.

- 2256. *Cissus biformifolia* Standl.? ex char. (non *C. cardiophylla* Standl.)
- 2388. *Cestrum Baenitzii* Lingelsh. (non *C. laurifolium*)
- 2416. *Cestrum nocturnum* L. (non *C. scandens*)
- ✓2554. *Senecio Hoffmannii* Klatt. det. J. M. Greenman.

Costa Rica Plants collected by A. F. Skutch
Supplementary list of Second Distribution.

Rubiaceae identified by P. C. Standley, Bromeliaceae by L. B. Smith,
Melastomaceae by H. A. Gleason, Polygalaceae and Compositae by S. F.
Blake, Piperaceae by W. Trelease, Musaceae by R. F. Griggs, Aegiphila
by H. Moldenke, Heliotropium by I. Johnston, Compsoneura and Cavendishia
by A. C. Smith, the remainder by C. V. Morton.

January 1937.

- ✓2640. *Psychotria hebeclada* DC.
- ✓2652. *Guzmannia Roezli* (E. Morr.) Mez. New to N. America
- ✓2657. *Clibadium anceps* Greenm.
- ✓2659. *Chiococca alba* (L.) Hitchc.
- ✓2674. *Polygala paniculata* L.
- ✓2675. *Peperomia rata* Trel. n. sp. type
- ✓2680. *Aegiphila panamensis* Moldenke
- ✓2682. *Psychotria pubescens* Sw.
- ✓2685. *Heliconia tortuosa* Griggs
- ✓2687. *Clidemia fraterna* Gleason sp. nov. type
- ✓2697. *Psychotria Mortoniana* Standl. n. sp. type
- ✓2699. *Psychotria costaricensis* Polak.
- ✓2700. *Clidemia dentata* D. Don
- ✓2706. *Erechtites hieracifolia* (L.) Raf.
- ✓2712. *Psychotria dispersa* Standl.
- ✓2714. *Heliconia acuminata* L. C. Rich.
- ✓2716. *Piper papilllicarpum* Trel. sp. nov. type
- ✓2724. *Chaptalia nutans* (L.) Polak.
- ✓2729. *Palicourea costaricensis* Benth.
- ✓2733. *Clibadium surinamense* L.
- ✓2737. *Heliotropium lagoense* (Warm.) Gürke
- ✓2739. *Schistocarpha oppositifolia* (Kuntze) Rydb.
- ✓2740. *Piper anisophyllum* var. *granulatum* Trel. n. var. type
- ✓2741. *Psychotria macrophylla* R. & P.
2744. " *pubescens* Sw.
- ✓2751. *Erechtites valerianaefolia* (Wolf) DC.
- ✓2757. *Machaerium biovulatum* Michelii
- ✓2775. *Costus formosus* Morton n. sp. type
- ✓2780. *Cyperus* sp.
- ✓2785. *Arthrostemma macrodesmum* Gleason
- ✓2788. *Leandra dichotoma* (Don) Cogn.
- ✓2791. *Compsoneura excelsa* A. C. Smith n. sp. type
- ✓2794. *Cosmibuena ovalis* Standl.
- ✓2795. *Coussarea paniculata* (Vahl) Standl.
- ✓2799. *Miconia sylvestris* Gleason sp. nov. type
- ✓2802. *Cavendishia Skutchii* A. C. Smith n. sp. type

Skutch

- ✓2803. Clidemia ramiflora Gleason n. sp. type
- ✓2816. Miconia dorsiloba Gleason n. sp. type
- ✓2836. Rudgea Skutchii Standl. n. sp. type
- 2846. Piper generalense Trel. n. sp. type
- 2848. Psychotria uliginosa Sw.
- ✓2850. Palicourea macrosepala Krause
- ✓2851. Peperomia defracta Trel. n. sp. type
- ✓2856. Cosmos caudatus H.B.K.
- ✓2865. Piper obitu-sericeum Trel. n. sp. type
- ✓2873. Psychotria marginata Sw.
- ✓2867. Blakea gracilis longifolia Cogn.

Additions and corrections to previous lists.

- 2169. Hyptis mutabilis (Rich.) Briq. (det. E. Epling)
- 2195. Drymonia marmorata Hook. (not Centrosolenia costaricana)
- 2261. Dioclea guianensis Benth. form
- 2381. Miconia flaviflora Gleason var. emigrans Gleason n. var. type
- 2457. Miconia borealis Gleason
- 2513. Miconia dolichorrhyncha Naud.
- 2538. Hydrangea diplostemona (D. Sm.) Standl. (not H. Skutchii)
- 2570. Ipomoea Purpusii House New to Costa Rica
- 2589. Guatteria aeruginosa Standl.
- 2768. Cymbocarpa refracta Miers (not Burmannia)
- 2769. Dictyostegia orobanchioides (Hook.) Miers (not Burmannia)

Costa Rican plants collected by Alexander F. Skutch (143067)

Third Consignment. First report.

Pteridophyta identified by William R. Maxon, Gramineae by J. R. Swallen, Acanthaceae by E. C. Leonard, Passiflora by E. P. Killip, Pitcairnia by L. B. Smith, Labiateae in part by Carl Epling, Mosses by E. B. Bartram, Tournefortia by I. M. Johnston, the remainder by C. V. Morton.

- 2874. *Hieronyma oblonga* (Tul.) Muell. Arg. Genuine form, new to N. Amer.
- 2875. *Struthanthus costaricanus* Standl.?
- 2876. *Ipomoea hederacea* Jacq.
- 2877. *Dioscorea trifida* L. f.
- 2878. *Teramnus uncinatus* (L.) Sw.
- 2879. *Cassia tora* L.
- 2880. *Cassia stenocarpoides* (Britt.) Morton
- 2881. *Melochia melissaefolia* Benth.
- 2882. *Kolobochilus leiorachis* Lindau
- 2883. *Pseuderanthemum alatum* (Nees) Radlk.
- 2885. *Micranthamnium minusculifolium* C. M.
- 2887. *Trichomanes polypodioides* L.
- 2888. *Syrrhopodon flavescentis* C. M.
- 2890. *Ardisia Skutchii* Morton
- 2891. *Alsophila crassifolia* Wercklé
- 2892. *Diplazium costaricanum* C. Chr.
- 2893. *Commelina longicaulis* Jacq.
- 2894. " *elegans* HBK.
- 2895. *Inga confusa* Britt. & Rose
- 2896. *Calopogonium galactoides* (HBK.) Benth.
- 2897. *Dioclea guianensis* Bent.
- 2898. *Salvia costaricensis* Oerst.
- 2899. *Kohleria spicata* (HBK.) Hanst.
- 2900. *Calliandra similis* Sprague & Riley
- 2901. *Ruellia jussieuoides* Schl.
- 2903. *Ficus costaricana* (Liebm.) Miq.
- 2904. *Cyathula achyranthoides* (HBK.) Moq.
- 2905. *Mimosa invisa* Mart.
- 2906. *Odontonema callistachyum* (C. & S.) Kuntze
- 2907. *Phyllanthus* sp. aff. *lathyroides* HBK.
- 2908. *Microthamnium reptans* (Sw.) Mitt.
- 2909. *Rhacopilum tomentosum* (Sw.) Brid.
- 2910. *Stenochlaena latiuscula* Maxon
- 2911. *Tinantia erecta* (Jacq.) Schl. var.
- 2912. *Polypodium blandulum* Christ
- 2913. *Adiantum concinnum* H. & B.
- 2914. *Triumfetta Josephina* Polak
- 2915. *Cyclanthera Tonduzii* Cogn.
- 2916. *Maranta arundinacea* L.
- 2918. *Hymenophyllum brevistipes* Liebm.
- 2919. *Phytolacca rivinoides* Kunth & Bouché

Skutch-2

- 2921. *Dryopteris curta* Christ. Previously known only from type collection.
- 2922. *Entodon Hampeanus* C. M.
- 2923. *Tradescantia geniculata* Jacq.
- 2924. *Rhacapilum tomentosum* (Sw.) Brid.
- 2925. *Desmodium distortum* (Aubl.)
- 2926. *Pavonia paniculata* Cav.
- 2927. *Castilleja communis* Benth.
- 2930. *Tovaria pendula* R. & P.
- 2931. *Physalis angulata* L.
- 2932. *Kolobochilus leiorachis* Lindau
- 2933. *Mnium rostratum* Schrad.
- 2934. *Hyptis vilis* Kunth & Bouché
- 2935. *Tradescantia cumanensis* Kunth?
- 2936. *Loasa triphylla* Juss.
- 2939. *Salvia occidentalis* Sw.
- 2942. *Zornia diophylla* (L.) Pers.
- 2943. *Hyptis lantanaefolia* Poit.
- 2944. " *brachiata* Briq.
- 2945. *Desmodium cajanifolia* (HBK.) Kuntze
- 2946. *Aeschynomene brasiliiana* (Poir.) DC.
- 2947. *Eleocharis Pittieri* Boeckl.
- 2948. *Hyptis suaveolens* Poit.
- 2950. *Callicostella pallida* (Hornschi.) Jaeg.
- 2951. *Clitoria rubiginosa* Juss.
- 2952. *Dicranella subinclinata* Lor.
- 2953. *Banisteria obovata* Small
- 2954. *Polypodium crassifolium* L.
- 2955. *Aeschynomene americana* L.
- 2956. *Crotalaria guatemalensis* Benth.
- 2957. *Pithecellobium Standleyi* (B. & R.) Morton
- 2958. *Dryopteris illidens* Maxon & Morton
- 2959. *Diplazium velutinum* Maxon & Morton, sp. nov. type
- 2961. *Oleandra costaricensis* Maxon
- 2962. *Carludovica leucocarpa* Standl.?
- 2963. *Clusia flava* Tr. & Pl. New to North America
- 2964. *Cyathea divergens* Kunze
- 2965. *Rhus juglandifolia* HBK.
- 2966. *Asplenium serra* L. & F.
- 2968. *Chelonanthus acutangulus* (R. & P.) Gilg
- 2969. *Vittaria minima* (Baker) Benedict
- 2970. *Elaphoglossum proliferans* Maxon & Morton n. sp. type
- 2972. *Leptochilus Braeorum* Ros.
- 2973. *Sabicea costaricensis* Wernh.
- 2974. *Phyllonomia ruscifolia* Willd.
- 2975. *Hypolepis rigescens* (Kunze) Féé
- 2977. *Cissampelos grandifolia* Tr. & Pl.
- 2978. *Asplenium falcinellum* Maxon
- 2979. *Solanum* n. sp.
- 2980. *Cassia* n. sp.
- 2981. *Solanum grossularia* Bitt.
- 2982. *Ipomoea* sp. nov.
- 2983. *Callisia monandra* (Sw.) Schult.

- 2984. *Ipomoea* sp. nov.
- 2985. *Hyptis mutabilis* (Rich.) Briq.
- 2986. *Cleome pilosa* Benth.
- 2987. *Solanum incomptum* Bitt.
- 2988. *Begonia involucrata* Liebm.
- 2990. *Phaseolus formosus* HBK. New to Costa Rica
- 2992. *Drymaria cordata* Willd.
- 2994. *Asplenium praemorsum* Sw.
- 2995. *Sisyrinchium micranthum* Cav.
- 2996. *Hemichlaena fruticosa* Benth. New to Costa Rica?
- 2998. *Centrosema pubescens* Benth.
- 2999. *Vigna vexillata* (L.) Rich.
- 3000. *Machaerium Seemannii* Benth.
- 3001. *Octoblepharum albidum* Hedw.
- 3003. *Tradescantia commelinoides* R. & S.
- 3004. *Stenandrium* n. sp. (Leonard mss.) type
- 3005. *Phaseolus leucanthus* Piper New to Costa Rica
- 3006. *Dorstenia choconiana* Wats.
- 3007. *Besleria chiapensis* Brandeg.
- 3008. *Begonia squamosa* C. DC.
- 3009. *Microthamnium mimusculifolium* C. M.
- 3010. *Athyrium Bradeorum* (Ros.) Maxon & Morton
- 3011. *Hyptis pectinata* (L.) Poit.
- 3012. *Justicia* n. sp. (Leonard MSS.) type
- 3014. *Nectandra reticulata* (R. & P.) Mezz
- 3015. *Polypodium Hombersleyi* Maxon
- 3018. *Polybotrya osmundacea* H. & B. sens lat.
- 3019. *Tetrapteris discolor* (Mey.) DC.
- 3021. *Dioscorea lepida* Morton
- 3023. *Lepidopilum cubense* Sull.
- 3026. *Sida savannarum* Schum.
- 3028. *Triumfetta lappula* L.
- 3030. *Asclepias curassavica* L.
- 3031. *Dennstaedtia adiantoides* (H. & B.) Moore
- 3032. *Alloplectus elegantissimus* Morton, n. sp. type
- 3033. *Spathiphyllum Friedrichsthali* Schott
- 3034. *Drymaria villosa* C. & S.
- 3038. *Asplenium bissectum* Sw.
- 3042. *Trichomanes rigidum* Sw.
- 3043. *Rhipidopteris flabellata* (H. & B.) Fé
- 3048. *Psilogramme congesta* (Christ) Maxon
- 3049. *Eleocharis Pittieri* Boeckl.
- 3050. *Paesia anfractuosa* (Christ) C. Chr.
- 3051. *Metzlerella longiseta* (Hook.) Par.
- 3052. *Sphagnum meridense* (Hampe) C. M.
- 3053. *Polygonatum robustum* Mitt.
- 3054. *Polypodium asplenifolium* L. (A narrow form)
- 3056. *Asplenium radicans* L. var. *cyrtopteron* (Kunze)
- 3057. *Lycopodium complanatum* L. var.
- 3058. *Cupania fulvida* Tr. & Pl.?
- 3059. *Cuphea utriculosa* Koehne
- 3060. *Polypodium fallax* Cham. & Schl. (syn. *P. margaritiferum* Christ)
- 3061. *Davilla Kunthii* St. Hil.
- 3062. *Nectandra sanguinea* Fottb.
- 3063. *Jacquemontia menispermoidea* Choisy
- 3064. *Hyptis recurvata* Poit.

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- 3064. *Hyptis recurvata* Poit.
- 3065. *Panicum Rudgei* R. & S.
- 3066. *Hyptis pulegioides* Pohl
- 3067. *Marsypianthes Chamaedrys* (Vahl) Kuntze
- 3068. *Eragrostis maypurensis* (HBK.) Steud.
- 3069. *Andropogon brevifolius* Sw.
- 3070. *Chelonanthus alatus* (Aubl.) Standl.
- 3071. *Crotalaria pterocaulon* Desv.
- 3072. " *sagittalis* L.
- 3073. *Orthoclada Laxa* (Rich.) Beauv.
- 3074. *Calopogonium mucunoides* Desv.
- 3076. *Anthurium obtusilobum* Schott
- 3077. *Trichomanes ludovicinum* Rosenst.
- 3078. " *Galeottii* Fourn. (A single immature plant)
- 3079. " *Ankersii* Parker
- 3080. *Xylosma intermedia* (Tr. & Pl.) Griseb.
- 3081. *Blechnum laxiflorum* Juss.
- 3082. *Tetrapteris Schiedeana* C. & S.
- 3083. *Buettneria catalpaefolia* Jacq.
- 3084. *Leptochilus serratifolius* (Mert.) C. Chr. New to N. America
- 3085. *Mollinedia Pinchotiana* Perk.
- 3086. *Phaseolus pilosus* HBK. New to Costa Rica.
- 3087. *Centrosema pubescens* Benth.
- 3088. *Scutellaria glabra* Leonard
- 3089. *Sanicula liberta* C. & S.
- 3090. *Dicliptera Ehrenbergii* Lindau
- 3091. *Chusquea virgata* Hack.
- 3092. *Trichilia oaxacana* Blake? New to Costa Rica
- 3093. *Plantago hirtella* HBK.
- 3095. *Sematophyllum loxense* (Hook.) Mitt.
- 3096. *Desmodium campyloclados* Hemsl.
- 3097. *Croton draco* var. *rhombifolius* Muell. Arg.
- 3099. *Abutilon discussum* Schl.
- 3100. *Tournefortia glabra* L.
- 3102. *Lamoureuxia lanceolata* Benth.
- 3103. *Stemodia peduncularis* Benth.
- 3105. *Pitcairnia heterophylla* (Lindl.) Beer
- 3107. *Serjania rhombea* Radlk.
- 3108. *Arundinella Deppeana* Nees
- 3110. *Hibiscus bifurcatus* Cav.
- 3113. *Dryopteris onusta* Maxon & Morton n. sp. type
- 3115. *Passiflora biflora* Lam.

Addition to previous lists.

- 2758. *Banisteria obovata* Small

AUG 16 1937

Costa Rican Plants, collected by A. F. Skutch
Third Consignment; Second Report

Melastomaceae identified by H. A. Gleason, Compositae by S. F. Blake,
Rubiaceae by P. C. Standley, Piperaceae by W. Trelease, Orchidaceae
by C. Schweinfurth, Cavendishia by A. C. Smith, Myristicaceae by A. C.
Smith, Verbenaceae by H. Moldenke, the remainder by C. V. Morton.

July, 1937

2884. *Tagetes filifolia* Lag.
2886. *Miconia flaviflora* var. *emigrans* Gl.
2889. *Jaegeria hirta* (Lag.) Less.
2902. *Manettia stenophylla* D. Sm.
2917. *Psychotria crebrinervia* Standl.
2920. *Piper nemori-marginis* Trel. n. sp. type
2928. *Habenaria monorrhiza* Rchb. f.
2929. *Tournefortia hirsutissima* L.
2937. *Bidens squarrosa* H.B.K.
2938. *Piper pustulicaule* Trel. n. sp. type
2940. *Monochaetum rivulare* Naud.
2949. *Bidens cynapiifolia* H.B.K.
2967. *Piper uniauriculatum* Trel. n. sp. type
2971. *Piper deductum* Trel. n. sp. type
2989. *Conostegia Pittieri* Cogn.
2991. *Cavendishia confertiflora* A. C. Smith n. sp. type
2993. *Piper subdurum* Trel. n. sp. type
2997. *Baccharis splendens* Heering
3013. *Psychotria macrophylla* R. & P.
3016. *Miconia* sp.
3017. *Eupatorium* sp.
3022. *Peperomia tecticola* Trel.
3025. *Topoea Durandiana* Cogn.
3027. *Pseudelephantopus spicatus* (Juss.) Rohr.
3029. *Elephantopus hypomalacus* Blake
3036. *Dialyanthera otoba* (H. & B.) Warb.
3039. *Cephaelis axillaris* Sw.
3040. *Symbolanthus pulcherrimus* Gilg
3041. *Eupatorium* sp.
3044. *Peperomia lati-ovata* Trel.
3045. *Eupatorium* sp.
3047. *Peperomia sphagnicola* Trel. n. sp. type
3055. *Coussarea paniculata* (Vahl) Standl.
3075. *Piper longipetiolatum* Trel.
3094. *Lantana hispida* H.B.K.
3098. *Citharexylum Donnell-Smithii* Greenm.
3101. *Leandra costaricensis* Cogn.
3104. *Piper pseudolanceaefolium* Trel.
~~3108. XXXXXXXX~~
3109. *Adelobotrys adscendens* (Sw.) Triana
3111. *Piper sublineatum* Trel.
3112. *Cephaelis Pittieri* Krause
3114. *Miconia Killipii* Gl. First record from N. America.

Addition to previous lists

2449. *Psychotria involucrata* Sw.

*Geo Hrb.
Geo & Arts*

*Chase
Holt
II '38
CK*

Costa Rican plants collected by A. F. Skutch
Fourth Consignment, 1st report

Pteridophyta identified by William R. Maxon, Gramineae by Agnes Chase, Acanthaceae by E. C. Leonard, the remainder by C. V. Morton,
U. S. National Museum, December 1937

*Not found
at La Selva!*

- ✓3117. *Persea caerulea* Mez
✓3118. *Virola sebifera* Aubl.
✓3120. *Cyperus niger* R. & P.
✓3121. *Sibthorpia pichinchensis* H.B.K.
✓3122. *Hyptis capitata* Jacq.
✓3123. *Solanum evolvulifolium* Greenm.
✓3125. *Phyllanthus lathyroides* H.B.K.
•3127. *Asplenium auritum* Sw. var.
✓3129. *Besleria triflora* (Oerst.) Hanst.
✓3131. *Siparuna Tonduziana* Perk.
✓3132. *Rhipidopteris peltata* (Sw.) Schott
✓3133. *Asplenium conquisitum* Underw. & Maxon
✓3135. *Trichomanes radicans* var. *Kunzeanum* (Hook.) Hieron.
✓3138. *Ichnanthus nemorosus* (Sw.) Doell.
✓3139. *Polypodium sphenodes* Kunze
✓3140. *Asplenium radicans* L.
✓3145. *Isachne arundinacea* (Sw.) Griseb.
✓3146. *Begonia estrellensis* C. DC.
✓3148. *Lasiacis divaricata* (L.) Hitchc.
✓3149. *Struthanthus marginatus* (Desr.) Blume
✓3150. *Sanicula liberta* C. & S.
✓3156. *Polypodium lycopodioides* var. *salicinum* (Wikstr.)
✓3159. *Solanum grossularia* Bitt.
✓3160. *Habracanthus sylvaticus* Nees
✓3162. *Rhynchospora Schiedeana* Kunth
✓3164. *Lobelia urticaefolia* Wimm.
✓3166. *Solanum trizygum* Bitt.
✓3167. " *ciliatum* Lam.
✓3168. *Tropaeolum bimaculatum* Kl.
✓3173. *Hymenophyllum Lehmannii* Hieron.
✓3174. *Siparuna grisea* Perk.?
✓3175. *Cordia ferruginea* R. & P.
✓3177. *Solanum phaseolooides* Polak.
✓3178. *Alternanthera microcephala* (Moq.) Standl.
✓3179. *Capsicum n. sp.?*
✓3187. *Ichnanthus nemorosus* (Sw.) Doell.
✓3188. *Saracha procumbens* (Cav.) R. & P.
✓3189. *Elaphoglossum eximum* (Mett.) Christ
✓3192. *Viola stipularis* Sw.
✓3193. *Alchemilla sibbaldiifolia* var. *Tonduzii* (Damm.) Perry
✓3194. *Cuphea carthaginensis* (Jacq.) Macbr.

- ✓ 3195. Cardamine flaccida C. & S.
- ✓ 3196. Hydrocotyle umbellata L.
- ✓ 3197. " leucocephala C. & S.
- 3199. Rubus Alexandri Morton n. sp. type
- ✓ 3199 1/2. Rubus Skutchii Morton, n. sp. type
- ✓ 3200. Cephaelis elata Sw.
- ✓ 3203. Asplenium plumbeum Christ?
- ✓ 3207. Hypericum uliginosum H.B.K.
- ✓ 3208. Torenia Thouarsii (C. & S.) Kuntze
- ✓ 3209. Sisyrinchium micranthum Cav.
- ✓ 3212. Polypodium duale Maxon
- ✓ 3215. Columnea microcalyx Hanst.
- ✓ 3220. Polygonum punctatum Ell.
- ✓ 3222. Solanum hispidum Pers.
- ✓ 3225. Fuchsia minutiflora Hemsl.
- ✓ 3229. Polypodium induens Maxon
- ✓ 3232. Lycopodium elegantulum Maxon n. sp. type
- ✓ 3233. Nertera depressa Banks
- ✓ 3236. Polybotrya sp. nov.?
- ✓ 3241. Psittacanthus americanus (L.) Mart.
- ✓ 3243. Merinthopodium neuranthum (Hemsl.) D. Sm.
- ✓ 3248. Ranunculus flagelliformis Smith
- ✓ 3249. Ranunculus repens L.
- ✓ 3250. Vismia guianensis (Aubl.) Pers.
- ✓ 3252. Cissus Martiniana Woods. & Seib.
- ✓ 3253. Myrcia costaricensis Berg
- ✓ 3256. Solanum cfr. Edwardsii Standl.
- ✓ 3257. Browallia americana L.
- ✓ 3262. Hemitelia arachnoidea (Underw.) Maxon
- ✓ 3263. Scutellaria costaricana Wendl.
- ✓ 3264. Hydrocotyle mexicana C. & R.
- ✓ 3266. Malvaviscus sp.
- ✓ 3267. Aphelandra repanda Nees
- ✓ 3268. Trichomanes montanum Hook.
- ✓ 3271. Besleria princeps Hanst.
- ✓ 3272. Trichomanes capillaceum L.
- ✓ 3274. Dryopteris atrogrisea C. Chr.
- ✓ 3275. Diplazium urticaefolium Christ
- ✓ 3276. Dryopteris equitans (Christ) C. Chr.
- ✓ 3278. Dryopteris equitans (Christ) C. Chr.
- ✓ 3280. Solanum triste Jacq.?
- ✓ 3285. Asplenium bissectum Sw.
- ✓ 3286. Solanum nudum H.B.K.
- ✓ 3287. Clusia palmana Standl. ex char.
- ✓ 3288. Cissus biformifolia Standl.
- ✓ 3289. Oreopanax Oerstedianum March.
- ✓ 3295. Heloperone macrantha (Oerst.) Benth.
- ✓ 3298. Polypodium sectifrons Kunze
- ✓ 3299. Weinmannia pinnata L.
- ✓ 3302. Prunus annularis Koehne
- ✓ 3307. Saurauia Pittieri D. Sm.
- ✓ 3309. Jacobinia aurea Hemsl.
- ✓ 3311. Solanum (Lycianthes) multiflorum (Bitt.)
- ✓ 3313. Capsicum macrophyllum (H.B.K.) Standl.?

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- ✓ 3315. *Inga luculenta* Morton, n. sp. type
- ✓ 3321. *Lycopodium clavatum* L. var.
- ✓ 3322. *Cochlidium rostratum* (Hook.) Maxon
- ✓ 3324. *Schlegelia* sp.
- ✓ 3325. *Spathacanthus Hoffmanni* Lindau
- 3326. *Razisea spicata* Oerst.
- ✓ 3329. *Razisea spicata* Oerst.
- ✓ 3331. *Didymochlaena truncatula* (Sw.) J. Sm.
- ✓ 3334. *Polypodium fraxinifolium* Jacq.
- ✓ 3335. *Capsicum* n. sp.?
- ✓ 3336. *Tradescantia commelinoides* R. & S.
- ✓ 3338. *Pleuropetalum Sprucei* (Hook. f.) Standl.
- ✓ 3339. *Hydrangea epiphytica* Morton, n. sp. type
- ✓ 3340. *Marcgravia rectiflora* Tr. & Pl.
- ✓ 3341. *Muhlenbergia tamnifolia* (H.B.K.) Meisn. var.
- ✓ 3342. *Hydrangea epiphytica* Morton, sp. nov
- ✓ 3343. *Solanum Connell-Smithii* Coult.
- ✓ 3344. *Cleome pilosa* var.
- ✓ 3345. *Drymaria villosa* C. & S.
- ✓ 3346. *Heliocarpus rufus* E. E. Wats.
- ✓ 3347. *Stemodia peduncularis* Benth.
- ✓ 3348. *Ilex Lamprophylla* Standl.
- ✓ 3351. *Markea leucantha* D. Sm.
- ✓ 3355. *Markea* n. sp.?
- ✓ 3356. *Prunella vulgaris* L.
- ✓ 3360. *Drymonia scandens* Morton, sp. nov. type
- ✓ 3362. *Gilibertia arborea* (L.) March. var.
- ✓ 3363. *Columnea Warscewicziana* Kl. & Hanst.
- 3366. *Struthiopteris Werckleana* (Christ) Broadb.
- ✓ 3367. *Polypodium falcoideum* Kuhn
- ✓ 3368. *Loasa triphylla* Juss.
- ✓ 3371. *Selaginella estrellensis* Hieron.
- ✓ 3374. *Triumfetta semitriloba* Jacq.
- ✓ 3376. *Polypodium jungermannioides* Kl.
3379. " *fucoides* Christ
- ✓ 3380. *Polypodium ursipes* Moritz
- ✓ 3381. *Gaiodendron posense* D. Sm.
- 3383. *Polypodium leucostictum* Kunze var.
- ✓ 3384. *Sapium pachystachys* Schum. & Pitt.

Additions and corrections to previous lists

2256. *Cissus brevipes* Morton & Standl. n. sp. type (in Standl. Fl. Costa Rica 2: 653. 1937). Not *C. biformifolia*.

2381. *Skutchia caudata* Pax & Hoffm.= *Trophis chorizantha* Standl.

✓ 2609. *Mollinedia discrepans* Morton, n. sp. (not *M. Pinchotiana*)

2628. " " " " " "

3085. " " " " " "

2806. *Eugenia Skutchii* Morton & Standl. n. sp. type (in Standl. Fl. Costa Rica 2: 774. 1937)

✓ 2976. *Maxillaria variabilis* Batem. det. C. Schweinfurth

2386. *Skutchia caudata* = *Trophis chorizantha* Standl.

Skutch plants.

Determinations lacking at the Gray Herbarium

W.R.M./APR 8-1938

- ✓ 2884 *Tagetes filifolia* Lag. det. Blake
- ✓ 2886 *Miconia flaviflora* var. *emigrans* Gl. det. Gleason
- ✓ 2889 *Jaegeria hirta* (Lag.) Less. det. Blake
- ✓ 2902 *Vanettia stenophylla* D. Sm. det. Standley
- ✓ 2917 *Psychotria crebrinervia* Standl. det. Standley
- ✓ 2920 *Pip^{er} nemori-marginis* Trel. n. sp. type det. Trelease
- ✓ 2928 *Habenaria monorrhiza* Rchb. f. det. Schmeidler
- ✓ 2929 *Tournefortia hirsutissima* L. det. Killip
- ✓ 2937 *Bidens squarrosa* H.B.K. det. Blake
- ✓ 2938 *Pip^{er} pustulicaule* Trel. n. sp. type det. Trelease
- ✓ 2940 *Monochaetum rivulare* Naud. det. Gleason
- ✓ 2949 *Bidens cynapiifolia* H.B.K. det. Blake
- ✓ 2967 *Pip^{er} uniauriculatum* Trel. n. sp. type det. Trelease
- ✓ 2971 *Pip^{er} deductum* Trel. n. sp. type det. Trelease
- ✓ 2989 *Conostegia Pittieri* Cogn. det. Gleason
- ✓ 2991 *Cavendishia confertiflora* A. C. Sm. n. sp. type det. A.C. Smith
- ✓ 2993 *Pip^{er} subdurum* Trel. n. sp. type det. Trelease
- ✓ 2994 *Asplenium praemorsum* Sw. det. Maxon
- ✓ 2997 *Baccharis splendens* Feerings det. Blake
- ✓ 3013 ~~*Tradescantia commelinoides* B. & S.~~ *Psychotria macrophylla* R. & P. det. Standley
- ✓ 3016 ~~*Borstenia choconiana* Wats.~~ *Miconia* sp. det. Gleason
- ✓ 3017 *Eupatorium* sp. det. Blake
- ✓ 3022 *Peperomia tecticola* Trel. det. Trelease
- ✓ 3025 *Topoea Durandiana* Cogn. det. Gleason
- ✓ 3027 *Pseudelephantopus spicatus* (Juss.) Rohr. det. Blake
- ✓ 3029 *Elephantopus hypomalacus* Blake det. Blake
- ✓ 3036 *Dialyantha otoba* (H. & B.) Warb. det. A.C. Smith
- ✓ 3039 *Cephaelis axillaris* Sw. det. Standley
- ✓ 3040 *Symbolanthus pulcherrimus* Gilg. det. Morton
- ✓ 3041 *Eupatorium* sp. det. Blake

(over)

- ✓ 3044 Peperomia lati-ovata Trel. det. Trelease
- ✓ 3045 Eupatorium sp. det. Blake
- ✓ 3047 Peperomia sphagnicola Trel. n. sp. type det. Trelease
- ✓ 3055 Conssarea paniculata. (Vahl) Standl. det. Standley
- ✓ 3075 ~~Pix~~^{Er} longipetiolatum Trel. det. Trelease
- ✓ 3094 Lantana hispida H.B.K. det. Moldenke
- ✓ 3098 Citharexylum Donnell-Smithii Greenm. det. Moldenke
- ✓ 3101 Leandra costaricensis Cogn. det. Gleason
- ✓ 3104 ~~Pix~~^{Er} pseudolanceaefolium Trel. det. Trelease
- ✓ 3106 Selaginella ~~x~~
- ✓ 3109 Adelobotrys adscendens (Sw.) Triana det. Gleason
- ✓ 3111 ~~Pix~~^{Er} sublineatum Trel. det. Trelease
- ✓ 3112 Cephaelis Pittieri Krause det. Standley
- ✓ 3114 Miconia Killipii Gl. First record from N. Amer. det. Gleason
- ✓ 3116 Machaerium biovulatum Micheli det. Morton

O. Finsch,
Wiegmann show this
with Am. Arb.?

P.W.M. 11 1938

7/1/38 Other Costa Rican plants collected by Alexander F. Skutch

4th consignment, second report

Compositae identified by S. F. Blake; Orchidaceae by Oakes Ames and C. Schweinfurth; Rubiaceae by P. C. Standley; Piperaceae by William Trelease; Melastomaceae by H. A. Gleason; mosses by E. B. Bartram; Urticaceae by E. P. Killip; and Selaginella by A. H. G. Alston.

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- 3124. *Alomia microcarpa* (Benth.) Rob.
 - 3126. *Stelis Skutchii* Ames n. sp. (Type)
 - 3128. *Eupatorium* sp.
 - 3130. *Palicourea macrosepala* Krause
 - 3134. *Pleurothallis ruscifolia* R. Br.
 - 3136. *Hoffmannia longipetiolata* Polak.?
 - 3137. *Psychotria graciliflora* Benth.
 - 3142. *Piper pseudolanceaefolium* Trel.
 - 3143. *Pilea parietaria* (L.) Blume
 - 3144. *Centradenia inaequilateralis* G. Don
 - 3151. *Sarcorrhachis naranjoana* Trel.
 - 3152. *Falicourea lasiorrhachis* Oerst.
 - 3153. *Gonzalagunia panamensis* (Cav.) Schum.
 - 3154. *Clidemia Mortoniana* Standl. n. sp. (Type)
 - 3155. *Eupatorium Billbergianum* Beurl.
 - 3170. *Pleurothallis costaricensis* Rolfe
 - 3171. *Nasdevallia nidifica* Rchb. f.
 - 3172. *Nacromitrium Tonduzii* Ren. & Card.
 - 3176. *Nikania cristata* Rob.
 - 3180. *Peperomia tenellaeformis* Trel.
 - 3181. *Microthamnium Lehmannii* Besch.
 - 3182. Mostly Hepaticae mixed with *Microthamnium reptans* (Sw.) Mitt.
 - 3183. *Sematophyllum loxense* (Hook.) Mitt.
 - 3184. " " " "
 - 3185. *Thamniopsis pendula* (Hook.) Fleisch.
 - 3186. *Pilea auriculata* Liebm.
 - 3190. *Selaginella porphyrospora* A. Br.
 - 3191. *Peperomia varablancana* Trel. n. sp. (Type)
 - 3201. *Microthamnium Langsdorffii* (Hook.) Mitt.
 - 3202. *Ravnia triflora* Oerst.
 - 3204. *Eupatorium Pittieri* Klatt
 - 3205. *Piper vara-blancanum* Trel. n. sp. (Type)
 - 3206. *Rondeletia buddleoides* Benth.
 - 3210. *Borreria ocimoides* (Burm.) DC.
 - 3213. *Vittaria* sp.
 - 3214. *Hoffmannia leucocarpa* Standl.
 - 3221. *Eupatorium anisochromum* Klatt
 - 3223. *Guettarda crispiflora* Vahl
 - 3224. *Conostegia rhodopetaloides* D. Sm.

3226. *Epidendrum exasperatum* Rchb. f.
3227. *Eupatroides arthrodes* Rob.
3237. *Rhaphidorrhynchium Lindigii* (Hampe) Brotherus
3238. *Hookeriopsis variabilis* (Hornsbh.) Jaeg.
3239. *Galinsoga urticaefolia* (HBK.) Benth. (form)
3242. *Eupatorium parasiticum* Klatt (ex char.)
3251. *Ornithidium fulgens* Rchb. f.
3253 1/2 *Telipogon Endresianus* Kraenzl.
3260. *Clibadium anceps* Greenm.
3261. *Xerococcus congestus* Oerst.
3265. *Epidendrum platystigma* Rchb. f.
3269. *Psychotria costaricensis* Polak.
3273. *Miconia incurva* Gleason n. sp. (Type)
3282. *Psychotria sylvivaga* Standl.?
3284. *Centronia phlomoides* Triana
3290. *Pleurothallis lanceola* Spr. New to C. Amer.
3292. *Polytrichum antillarum* Rich.
3293. *Rhaphidorrhynchium Lindigii* (Hampe) Brotherus
3294. *Polytrichum antillarum* Rich.
3300. *Palicourea subrabra* Polak.
3303. *Spilanthes americana* f. *parvifolia* (Benth.) A. H. Moore
3304. *Manettia flexilis* Brandeg.
3305. *Monnieria sylvatica* S. & C. det. Blake
3310. *Peperomia substriata* C. DC.
3312. *Eupatorium Pittieri* Klatt
3318. *Blakea* sp.
3319. *Leandra melanodesma* (Naud.) Cogn.
3320. *Clibadium leiocarpum* var. *strigosum* Blake
3323. *Epidendrum anoglossum* Schltr.
3330. *Psychotria sarapiquensis* Standl. n. sp. (Type)
3349. *Phenax rugosus* (Poir.) Wedd.
3350. *Monochaetum rivulare* Naud.
3352. *Bidens squarrosa* HBK.
3353. *Maxillaria microphyton* Schltr.
3354. *Camaridium Biolleyi* Schltr.
3357. *Fuchsia arborescens* Sims det. Standl.
3359. *Rondeletia Torresii* Standl.
3361. *Eupatorium sexangulare* (Klatt.) Rob.
3365. *Piper carilloanum* C. DC.
3369. *Peperomia miscitecla* Trel. n. sp. (Type)
3370. *Epidendrum mirabile* Ames & Schweinf.
3375. *Selaginella porphyrospora* A. Br.
3377. *Epidendrum miscicola* Schltr.
3378. *Stelis pardipes* Rchb. f.
3385. *Pleurothallis monstrabilis* Ames
3386. *Oncidium bracteatum* Rchb. f.

Additions and corrections to previous lists

2297. Dicliptera pallida Leonard (not D. acuminata)
2574. Blechum costaricense Oerst. (syn. B. ruellioides Leonard ined.)
2649. Saracha procumbens (Cav.) R. & P. (syn. S. Rothii Morton ined.)
2825. Stelis planipetala Ames, n. sp. Type
2882. Razisea spicata Oerst. (not Kolobochilus leiorachis)
det. Leonard
2883. Pseuderanthemum cuspidatum (Nees) Radlk. (not P. alatum)
det. Leonard
2906. Odontonema strictum (Nees.) Ktze. (not O. callistachyum)
det. Leonard
2932. Razisea spicata Oerst. (not Kolobochilus leiorachis)
det. Leonard
3004. Aphelandra Tonduzii Leonard (not Stenandrium)
3007. Besleria laxiflora Benth. (syn. B. chiapensis Brandeg.)
det. Leonard
3016. Miconia prasina (Sw.) DC. det. Gleason
3031. Blechum costaricense Oerst. (not B. laxiflorum Juss.)
det. Leonard
3090. Dicliptera Skutchii Leonard n. sp. Type (not D. Ehrenbergii)
3295. Poikilacanthus macranthus Lindau (not Peloperone macrantha (Oerst.) Benth.)
Benth.)

X - No = Det. entered on Meseños at A.A.
May 1940

W.R.M. SL 34193

Costa Rican plants collected by A. F. Skutch
5th, 6th, and 7th consignments, First Report

Pteridophyta identified by William R. Maxon; Compositae by S. F. Blake,
Acanthaceae by E. C. Leonard, Passiflora and Urticaceae by E. P.
Killip, Apocynaceae by R. E. Woodson, Verbenaceae by H. N. Moldenke,
Ericaceae and Araliaceae by A. C. Smith, Bromeliaceae by L. B.
Smith, Labiateae by C. Epling, Melastomaceae by H. A. Gleason,
Piperaceae by W. Trelease, Desmodium by B. Schubert, the remainder
by C. V. Morton, U. S. National Museum, September 1939.
Orchidaceae by C. S. Schweinfurth.

- 3391. *Miconia theaezans* (Bonpl.) Cogn.
- 3392. *Drymonia rubra* Morton
- 3393. *Hydrochuzex*
- 3394. *Miconia cremadena* Gleason, n. sp.

- 3396. *Columnea lepidocaula* Hanst.
- 3397. *Paspalum candidum* (H. & B.) Kunth
- 3401. *Equisetum bogotense* HBK.
- 3403. *Hydrocotyle pusilla* A. Rich.
- 3404. *Glockeria ventricosa* Donn. Smith.
- 3405. *Begonia alnifolia* A. DC.
- 3406. *Cupania grandiflora* Morton
- 3407. *Campanea Oerstedii* Kl.
- 3409. *Epidendrum Laueanum* Rolfe ex Bonhof
- 3410. *Satyria Warszewiczii* Kl.
- 3411. *Camaridium nutantiflorum* Schltr.
- 3412. *Centropogon solanifolius* Benth.
- 3414. *Begonia* sp.
- 3418. *Cranichis diphylla* Sw. (syn. *C. guatemalensis* Schltr.)
- 3419. *Epidendrum Endresii* Rchb. f.
- 3420. *Piper nervo-excurrrens* Trel., n. sp. type
- 3421. *Polypodium* sp. nov.
- 3422. " " "
- 3423. *Asplenium harpeodes* Kunze
- 3424. *Dryopteris Hemsleyana* (Baker) C. Chr.
- 3425. *Peperomia lateriflora* Trel.
- 3426. *Dryopteris denticulata* (Sw.) Kuntze (small form)
- 3427. *Cheiroglossa palmata* (L.) Presl
- 3432. *Sambucus oreopola* Donn. Sm.
- 3433. *Geranium mexicanum* HBK.
- 3434. *Zinowiewia costaricensis* Lundell
- 3436. *Sphyrospermum cordifolium* Benth.
- 3437. *Disterigma Humboldtii* (Kl.) Ndzu.
- 3438. *Peperomia medio-montis* Trel., n. sp. type
- 3441. *Norantea subsessilis* Donn. Sm.
- 3448. *Justicia Valerii* Leonard
- 3449. *Ichnanthus pallens* (Sw.) Munro
- 3450. *Begonia glabra* Aubl.
- 3451. *Columnea Warszewicziana* (Kl.) Hanst.
- 3452. *Salvia alvajaca* Oerst.

3453. *Elleanthus glaucophyllus* Schltr.
 3454. *Peperomia recepta* Trel., n. sp. type
 3457. *Justicia costaricana* Leonard
 3458. *Columnea purpurata* Hanst.
 3459. *Polytaenium Dussianum* Bened. aff.
 3460. *Ardisia compressa* HBK.
 3461. *Pleurothallis grandis* Rolfe
 3463. *Trichomanes polypodioides* L.
 3465. *Asplenium harpeodes* Kunze
 3466. *Columnea verecunda* Morton, n. sp. type
 3468. *Polypodium plebeium* Schl. & Cham.
 3469. " *myriolepis* Christ
 3471. *Paspalum candidum* (H. & B.) Kunth
 3472. *Oxalis corniculata* L.
 3474. *Stachys costaricensis* Briq.
 3477. *Solanum roblense* Bitter
 3479. *Eurya Seemanniana* Pittier
 3480. *Axinaea costaricensis* Cogn.
 3481. *Utricularia verapazensis* Morong
 3482. *Viburnum venustum* Morton
 3484. *Begonia alnifolia* A. DC.
 3485. *Piper decurrens* C. DC.
 3489. *Begonia alnifolia* A. DC.
 3492. *Centropogon nutans* Pl. & Oerst.
 3495. *Panicum boliviense* Hack.
 3497. *Begonia Valerii* Standl.
 3498. " " "
 3499. *Hyptis mutabilis* (Rich.) Briq.
 3501. *Diplazium Werckleanum* Christ
 3504. *Saurauia pseudorubiformis* Busc.
 3509. *Maxillaria Brenesii* Schltr.
 3511. *Bilancia columbiana* Pl. & Lind.
 3513. *Polypodium montigenum* Maxon
 3514. *Dicranopteris bifida* (Willd.) Maxon, sens. lat.
 3515. " *costaricensis* Underw.
 3517. *Odontosoria gymnogrammoides* Christ
 3519. *Paesia anfractuosa* (Christ) C. Chr.
 3520. *Dicranopteris retroflexa* (Christ) Underw.
 3522. *Trichomanes eximum* Kunze
 3523. *Epidendrum pygmaeum* Hook.
 3525. " *incomptum* Rchb. f.
 3526. " " " "
 3528. *Miconia Pittieri* Cogn.
 3529. " *glaberrima* (Schl.) Naud.
 3530. *Alloplectus ichthyoderma* Hanst.
 3531. *Oxalis vulcanicola* Donn. Smith
 3533. *Calceolaria mexicana* Benth.
 3534. *Piper irazuianum* C. DC.
 3535. *Besleria barbensis* Hanst.
 3536. *Dicliptera iopus* Lindau
 3537. *Trichomanes radicans* var. *Kunzeanum* (Hook.) Hieron.
 3538. *Ardisia glandulosso-marginata* Verst.
 3539. *Polypodium angustifolium* Sw.
 3540. *Asplenium conquisitum* Und. & Maxon
 3541. *Valeriana Candolleana* Gardn.
 3543. *Salvia compacta* Kuntze

3545. *Castilleia communis* Benth.
3546. *Guarea Tonduzii* C. DC. (First flowering material collected)
3547. *Kohleria spicata* (HBK.) Oerst.
3548. *Calceolaria mexicana* Benth.
3549. *Mauria biringo* Tull.
3551. *Epidendrum exile* Ames
3552. *Capsicum Standleyanum* Morton
3553. *Drymonia lanceolata* (Hanst.) Morton
3554. *Columnea Oerstediana* Hanst.
3558. *Guzmania nicaraguensis* Mez. and C. F. Baker
3560. *Dryopteris chiriquana* C. Chr.
3561. " *patula* (Sw.) Underw.
3566. *Hydrocotyle leucodaphala* C. & S.
3567. *Sida rhombifolia* L.
3572. *Anagallis pumila* Swartz
3574. *Capsicum consanguineum* Morton, n. sp. type
3575. *Dryopteris atrovirens* C. Chr.
3576. *Hymenophyllum asplenoides* Sw.
3577. *Glockeria stricta* Leonard
3578. *Pteris altissima* Poir.
3579. *Besleria formosa* Morton
3580. *Solanum longiconicum* Bitter.
3581. *Miconia theae,ans* (Bonpl.) Cogn.
3582. *Cestrum Warscewiczii* Klotzsch
3583. *Didymopanax Pittieri* March.
3586. *Vittaria Gardneriana* Fée
3588. *Euonymus costaricensis* Standl.
3590. *Piper strigillimum* Trel., n. sp. type
3594. *Piper stylamentum* Trel., n. sp. type
3596. *Capsicum Standleyanum* Morton, n. sp. type
3600. *Hypolepis nuda* Mett.
3601. *Dryopteris atrogrisea* C. Chr.
3604. *Struthiopteris Maxonii* Broadb.
3605. *Piper oblique-truncatum* Trel., n. sp. type
3608. *Alloplectus tetragonos* (Oerst.) Hanst.
3609. *Piper glabratinerve* Trel., n. sp. type
3612. *Peperomia aperte-ramosa* Trel., n. sp. type
3614. *Solanum trizygum* Bitter
3616. *Microtropis occidentalis* Loes.
3617. *Drymonia conchocalyx* Hanst.
3618. *Capsicum Standleyanum* Morton
3620. *Markea leucantha* Donn. Sm.
3621. *Guarea rhopalocarpa* Radlk. (1st flowering material collected)
3623. *Dioscorea lepida* Morton
3624. *Asplenium* sp.
3625. *Piper rubidispicum* Trel., n. sp. type
3626. *Cavendishia quereme* (HBK.) B. & H.
3628. *Peperomia Tonduzii* C. DC.
3629. " *duplicornis* Trel., n. sp. type
3630. " *barba-poasana* Trel., n. sp. type
3631. *Psammisia ramiflora* Kl.
3633. *Adiantum tetraphyllum* H. & B.
3634. *Asplenium Solmsii* Baker
3635. *Piper placens* Trel., n. sp. type
3636. *Pteris* sp. nov.
3638. *Polypodium trifurcatum* L.

Skutch-4

- 3641. *Pennisetum bambusiforme* (Fourn.) Hemsl.
- 3643. *Pleurothallis compacta* Ames & Schweinf.
- 3647. *Axonopus compressus* (Sw.) Beauv.
- 3648. *Sporobolus Poiretii* (R. & S.) Hitchc.
- 3649. *Peperomia triplamenta* Trel., n. sp. type
- 3653. *Melinis minutiflora* Beauv.
- 3654. *Lozania montana* Sandl.
- 3656. *Histiopteris incisa* (Thunb.) J. Sm.
- 3659. *Isachne arundinacea* (Sw.) Griseb.
- 3660. *Piper sulcinervosum* Trel.
- 3661. *Peperomia pachyclada* Trel., n. sp. type
- 3663. *Pennisetum clandestinum* Chiov.
- 3664. *Burmeistera cyclostigmata* D. Sm.
- 3666. *Pleurothallis lancilabris* var. *oxyglossa* (Schltr.) Schweinf.
- 3668. *Lepanthes blepharistes* Rchb. f.
- 3670. *Ipomoea tiliacea* (Willd.) Choisy
- 3672. " " " "
- 3673. *Piper callisiaecaule* Trel., n. sp. type
- 3674. *Lasiacis Standleyi* Hitchc.
- 3675. *Peperomia martagonifolia* C. DC.
- 3676. *Piper difficile* Trel., n. sp., type
- 3677. *Lycopodium tubulosum* Maxon
- 3677 1/2. " *linifolium* L.
- 3678. *Peperomia ciliifera* Trel.
- 3680. *Lasiacis Standleyi* Hitchc.
- 3682. *Stenochlaena Maxonii* Und.?
- 3683. *Meliosma glabrata* (Liebm.) Urban
- 3684. *Struthiopteris Maxonii* Brodh.
- 3686. *Peperomia dispansa* Trel., n. sp. type
- 3691. *Asplenium radicans* L. var.
- 3693. *Struthiopteris polypodioides* (Sw.) Trev.
- 3695. *Lycopodium reflexum* Lam.
- 3697. *Tournefortia glabra* L.
- 3698. *Lycopodium callitrichae* folium Mett.
- 3701. *Solenophora calycosa* Donn. Sm.
- 3707. *Cavendishia complectens* Hemsl.
- 3708. *Clethra vulcanicola* Standl. New to Costa Rica
- 3709. *Hasseltia floribunda* HBK.
- 3710. *Thibaudia costaricensis* Hoer.
- 3712. *Solanum nigrum* L.
- 3714. *Trichomanes lucens* Sw.
- 3715. *Stelis despectans* Schltr.
- 3716. *Cestrum Endresii* Francey ?
- 3717. *Masdevallia triaristella* Rchb. f.
- 3719. *Polypodium limula* Christ
- 3722. *Struthiopteris polypodioides* (Sw.) Trev.
- 3724. *Hieronyma oblonga* (Tul.) Muell. Arg.
- 3726. *Piper poaso-barbanum* Trel., n. sp., type
- 3727. *Picramnia carpinterae* Polak
- 3729. *Ilex lamprophylla* Standl.?
- 3731. *Lycopodium* sp. nov.
- 3732. *Acalypha Ferdinandi* var. *pubescens* K. Hoffm.
- 3733. *Piper coiturinode* Trel., n. sp. type
- 3739. *Piper hebetatum* Trel., n. sp. type
- 3740. " *carilloanum* C. DC.

- ✓3741. *Piper inulum* Trel., n. sp. type
 ✓3743. *Gilibertia arborea* (L.) March.
 3744. *Scaphiosepalum Standleyi* Ames
 ✓3746. *Cestrum poasanum* Donn. Sm.
 ✓3747. *Oplismenus hirtellus* (L.) Beauv.
 ✓3751. *Polypodium* sp. Not recognized.
 3752. *Besleria Wendlandiana* Hanst.
 3753. *Neurocallis praestantissima* (Bory) Fée
 ✓3754. *Trichilia havanensis* Jacq.
 3757. *Masdevallia anura* Kränzl.
 3760. *Stelis pardipes* Rchb. f.
 ✓3761. *Cavendishia Smithii* Hoer.
 ✓3762. *Marcgravia polyantha* Delp.
 3764. *Pleurothallis lancilabris* (Rchb. f.) Schltr.
 ✓3766. *Grammadenia costaricana* (Hemsl.) Mez
 ✓3767. *Piper pseudolanceaefolium* Trel.
 ✓3769. *Cupania grandiflora* Morton, n. sp. type
 ✓3771. *Campanea Oerstedii* Kl.
 ✓3772. *Brymonia conchocalyx* Hanst.
 ✓3773. *Turpinia occidentalis* (Sw.) Don
 3776. *Stelis leucopogon* Rchb. f.
 ✓3781. *Lozania montana* Standl.
 ✓3783. *Polypodium jungermannioides* Kl
 3785. *Fregea Wercklei* Schltr.
 ✓3787. *Hieronyma oblonga* (Tul.) Muell. Arg.
 ✓3790. *Cavendishia capitulata* Donn. Sm.
 ✓3791. " *melastomoides* (Kl.) Hemsl.
 3792. *Oncidium bracteatum* Rchb. f. & Marsc.
 ✓3793. *Centropogon palmanus* (D. Sm.) Wimmer
 ✓3794. *Cuphea calophylla* C. & S.
 ✓3795. *Viola stipularis* Sw.
 ✓3796. *Luehea speciosa* Willd.
 ✓3797. *Cissus brevipes* Morton & Standl.
 3798. *Tetrastylis lobata* Killip
 ✓3801. *Peperomia edepilata* Trel., n. sp. type
 ✓3802. *Lasiacis Standleyi* Hitchc.
 ✓3804. *Pharus parvifolius* Nash
 ✓3805. " *virescens* Döell.
 ✓3806. *Chusquea Pittieri* Hack.
 ✓3807. *Piper formicitorans* var. *filipes* Trel., n. sp. type
 3808. " *filii-terminans* Trel., n. sp. type
 ✓3810. *Piper carilloanum* C. DC. forma
 ✓3814. *Saurauia costaricensis* Donn. Sm.
 ✓3816. *Wissadula excelsior* (Cav.) Presl
 ✓3817. *Lasiacis ruscifolia* (HBK.) Hitchc.
 ✓3819. *Arundinella Deppeana* Nees
 ✓3820. *Helicocarpus excelsior* Morton
 ✓3821. *Lasiacis oaxacensis* (Steud.) Hitchc.
 ✓3823. *Ipomoea Tuerckheimii* Vatke
 ✓3824. *Orthoclada laxa* (L. Rich.) Beauv.
 ✓3825. *Capsicum tetramerum* Standl. & Morton
 ✓3828. *Schultesia lisianthoides* (Griseb.) B. & H.
 ✓3829. *Dolicarpus dentatus* (Aubl.) Standl.
 ✓3830. *Ichnanthus pallens* (Sw.) Munro
 ✓3831. *Cordia polycephala* (Lam.) Johnst.
 ✓3832. *Piper longipetiolatum* (C. DC.) Trel.

3835. *Cynoctonum Mitreola* (L.) Britt.
 3838. *Lobelia xalapensis* HBK.
 3840. *Polygala brizoides* St. Hil.
 3841. *Juanulloa Sargii* Donn. Sm.
 3845. *Croton glabellus* L.
 3846. *Peperomia pellucida* (L.) HBK.
 3847. *Pilea hyalina* Fenzl
 3848. *Oxalis corniculata* L. = *O. repens* Thbg.
 3849. *Blechnum fraxineum* Willd. sens. lat.
 3850. *Piper bonum* Trel., n. sp. type
 3852. *Heliocarpus excelsior* Morton
 3854. *Peperomia psiloclada* var. *memoranda* Trel., n. var. type
 3857. *Parathesis serrulata* (Sw.) Mez
 3858. *Banisteria Beecheyana* (Juss.) C. B. Rob.
 3859. *Matayba scrobiculata* (HBK.) Radlk. New to Costa Rica
 3861. *Passiflora biflora* Lam.
 3862. *Lasiacis sorghoidea* (Desv.) H. & C.
 3863. " *oaxacensis* (Steud.) Hitchc.
 3864. *Prestonia dentigera* Woodson, sp. nov. type
 3865. *Pavonia oxyphyllaria* D. Sm.
 3866. *Piper sagittifolium* var. *reductum* Trel., n. var. type
 3867. *Piper falcatispicum* Trel., n. sp. type
 3868. *Piper pubinerve* C. DC.
 3871. *Lasiacis scabrior* Hitchc.
 3872. *Trichomanes rigidum* Sw.
 3874. *Panicum pulchellum* Raddi
 3875. *Lasiacis ruscifolia* (HBK.) Hitchc.
 3876. " " " "
 3877. *Ichnanthus tenuis* (Presl) H. & C.
 3878. *Panicum polygonatum* Schrad.
 3880. *Serjania cornigera* Turcz.
 3882. *Cestrum alternifolium* (Jacq.) O. E. Schulz
 3884. *Cydista aequinoctialis* (L.) Miers
 3885. *Justicia comata* (L.) Lam.
 3886. *Desmodium canum* (Gmel.) Schinz & Thell.
 3887. *Ichnanthus tenuis* (Presl) H. & C.
 3888. *Sauvagesia erecta* L.
 3890. *Panicum pulchellum* Raddi
 3895. *Hygrophila guianensis* Nees
 3896. *Selaginella arthritica* Alston
 3897. *Piper rivuli-quaeritans* Trel., n. sp. type
 3898. *Adiantum macrophyllum* Sw.
 3899. *Tetraphyllum lobata* Killip
 3900. *Pavonia dasypetala* (Turcz.) Standl.
 3901. *Cissus rhombifolia* Vahl
 3903. *Lindackeria laurina* Presl
 3907. *Piper formicitorans* Trel.
 3908. *Begonia filipes* Benth.
 3910. *Dryopteris submarginalis* (L. & F.) C. Chr.
 3912. *Adiantum petiolatum* Desv.
 3914. *Psidium Friedrichsthalianum* (Berg) Ndzu
 3919. *Solanum Alexandri* Morton, n. sp. type
 3920. " *salviifolium* Lam.
 3921. *Pteris biaurita* L.
 3922. *Heliocarpus appendiculatus* Turcz.
 3923. *Banisteria Beecheyana* (Juss.) C. B. Rob.

3924. *Serjania* sp. aff. *racemosa* Schum.
 3925. *Piper riparense* C. DC.
 3926. *Solanum jamaicense* Mill.
 3927. *Vismia ferruginea* HBK.
 3928. *Cestrum panamense* Standl.
 3929. *Piper pravum* Trel., n. sp. type
 3930. *Solanum hirsutissimum* Standl.
 3951. *Hyptis recurvata* Poit.
 3939. *Spananthe paniculata* Jacq.
 3944. *Cuphea utriculosa* Koehne
 3946. *Setaria vulpiseta* (Lam.) R. & S.
 3949. *Adiantum concinnum* H. & B.
 3950. *Pogonopus speciosus* (Jacq.) Schum. Rare in Costa Rica
 3951. *Paspalum paniculatum* L.
 3952. *Luehea Seemannii* Tr. & Pl.
 3956. *Passiflora Oerstedii* Mast.
 3957. *Cyphomandra costaricensis* Donn. Sm.
 3959. *Solanum salviifolium* Lam.
 3960. *Hybanthus attenuatus* (H. & B.) G. K. Schulze
 3961. *Trichilia Oerstediana* C. DC.
 3963. *Hymenachne donacifolia* (Raddi) Chase
 3965. *Posadaea sphaerocarpa* Cogn. New to Costa Rica
 3966. *Begonia cuspidata* C. DC.
 3967. *Croton glandulosus* L.
 3969. *Polygala brizoides* St. Hil.
 3970. *Eleusine indica* (L.) Gaertn.
 3971. *Digitaria sanguinalis* (L.) Scop.
 3973. *Polygala paniculata* L.
 3974. *Acalypha arvensis* Poepp. & Endl.
 3975. *Hybanthus attenuatus* (H. & B.) G. K. Schulze?
 3976. *Guazuma ulmifolia* Lam.
 3977. *Panicum trichoides* Sw.
 3978. *Oncidium Titania* Schltr.
 3980. *Dolicarpus multiflorus* Standl. New to Costa Rica
 3982. *Solanum celsum* Standl. & Morton
 3983. *Melothria guadalupensis* (Spreng.) Cogn.
 3984. *Tectaria rheosora* (Baker) C. Chr.
 3987. *Saccoloma inaequale* (Kunze) Mett.
 3989. *Psidium Friedrichsthalianum* (Berg) Ndzu
 3990. *Terminalia chiriquensis* Pittier
 3991. *Cupania fulvida* Tr. & Pl.?
 3992. *Eugenia Oerstediana* Berg
 3993. *Tetrapteris acapulcensis* HBK.
 3994. *Panicum zizanioides* HBK.
 3997. *Cuphea carthagenensis* (Jacq.) Macbr.
 3998. *Desmodium adscendens* (Sw.) DC.
 4000. *Garcia procumbens* (Mill.) Greenm.
 4003. *Ipomoea Nil* (L.) Roth
 4004. *Panicum maximum* Jacq.
 4005. *Herremia aegyptia* (L.) Urban
 4008. *Pseudechinolaena polystachya* (HBK.) Stapf
 4012. *Desmodium scorpiurus* Desv.
 4013. *Cordia bicolor* DC. Apparently new to Costa Rica
 4017. *Mesechites trifida* (Jacq.) Muell. Arg.
 4021. *Phyllanthus Pittieri* Pax
 4022. *Eragrostis maypurensis* (HBK.) Steud.
 4027. *Croton Tonduzii* Pax
 4028. *Zinowiewia costaricensis* Lundell

- ✓4029. *Rapanea pellucido-punctata* (Oerst.) Mez
✓4030. *Cordia bicolor* DC.
✓4032. *Simaruba glauca* DC.
✓4034. *Paspalum conjugatum* Berg
✓4035. *Hyparrhenia rufa* (Nees) Stapf
4037. *Passiflora ambigua* Hemsl.
✓4039. *Ichnanthus pallens* (Sw.) Munro
✓4040. *Lasiacis sorghoidea* (Desv.) H. & C.
✓4041. *Myrica plicato-lobata* Berg
✓4045. *Eugenia Oerstediana* Berg
✓4046. *Belotia macrantha* Sprague
✓4051. *Hieronyma oblonga* (Tul.) Muell. Arg.
✓4053. *Panicum Heankeanum* Presl
✓4056. *Coix lacryma-jobi* L.
4055. *Olyra latifolia* L.
✓4062. *Merremia umbellata* (L.) Hallier
✓4063. *Pavonia paniculata* Cav.
✓4064. *Sida pyramidata* Desp.
4065. *Paspalum virgatum* L.
✓4066. *Panicum grande* H. & C.
✓4067. *Sida glutinosa* Comm.
✓4068. *Passiflora biflora* Lam.
✓4070. *Byttneria aculeata* Jacq.
✓4073. *Dalechampia panamensis* Pax. & Hoffm.
✓4074. *Solanum accrescens* Standl. & Morton
✓4076. *Jacquemontia ciliata* Sandw.
✓4077. *Xylosma intermedium* (Tr. & Pl.) Griseb.
4080. *Alchornea latifolia* Sw.
✓4082. *Piper deductum* Trel.
✓4089. *Axonopus aureus* Beauv.
4090. *Jacquemontia aurea* (Desr.) Choisy
✓4091. *Davilla Kunthii* St. Hil.
✓4093. *Vismia latifolia* Choisy
✓4095. *Paspalum decumbens* Sw.
✓4100. *Andropogon virgatus* Desv.
4105. *Lindsaea stricta* (Sw.) Dry.
✓4106. *Trichomanes pinnatum* Hedw.
✓4107. *Lophidium elegans* (Vahl) Presl
✓4109 *Lisanthus Seemannii* (Griseb.) Perkins
✓4113. *Pennisetum purpureum* Schumach.
4114. *Scaphyglottis mescopia* (Endres & Rchb. f.) B. & H.
4115. *Panicum* sp.
✓4119. *Anguria* near *Tonduzii* Cogn.
4121. *Ipomoea* n. sp.?
✓4128. *Lantana grosseserrata* Mo Idenke, n. sp. type
✓4129. *Mandevilla hirsuta* (A. Rich.) K. Sch.
✓4131. *Tournefortia bicolor* Wartz
✓4132. *Cordia glabra* L.
4133. *Cydista aequinoctialis* (L.) Miers
✓4134. *Russelia verticillata* HBK.
✓4141. *Burmeistera cyclostigmata* Donn. Sm.
4143. *Marcgravia guatemalensis* Standl. New to Costa Rica
✓4144. *Begonia* n. sp.
✓4145. *Centropogon nutans* Pl. & Oerst.
✓4147. *Solanum trizygum* Bitter
✓4151. *Lygodium radiatum* Frantl

4153. *Acalypha macrostachya* Jacq.
 4156. *Jussiaea suffruticosa* L.
 4157. *Eperomia umbrigaudens* Trel., n. sp. type
 4163. *Bombacopsis sessilis* (Benth.) Pitt.
 4167. *Marila verapicensis* Donn. Sm.
 4169. *Dicranopteris bifida* (Willd.) Maxon
 4170. *Epidendrum imatophyllum* Lindl.
 4173. *Dicranopteris pectinata* (Willd.) Underw.
 4174. *Jussiaea lithospermifolia* Kunth
 4177. *Arundinella Deppeana* Nees
 4178. *Piper praemorsicaudatum* Trel., n. sp. type
 4181. *Orthoclada laxa* (L. Rich.) Beauv.
 4185. *Asplenium Solmsii* Baker
 4186. *Blechnum occidentale* L.
 4187. *Salvia drymocharis* Epling
 4188. *Stemodia peduncularis* Benth.
 4191. *Lippia Torresii* Standl.
 4192. *Salvia Holwayi* Blake
 4195. *Lozanella enantiophylla* (D. Sm.) Killip & Morton
 4198. *Cestrum dumetorum* Schlecht.
 4199. " " "
 4202. *Wigandia caracasana* HBK.
 4206. *Lamourea lanceolata* Benth.
 4210. *Columnea florida* Morton
 4216. *Piper carilloanum* C. DC. form
 4218. *Solanum lanceifolium* Jacq.
 4224. *Stachytarpheta Frantzii* Polak.
 4226. *Heliocarpus appendiculatus* Turcz.
 4227. *Solanum jamaicense* Mill.
 4231. *Trizeuxis falcata* Lindl.
 4235. *Sapium jamaicense* Sw.
 4237. *Olyra latifolia* L.
 4238. " *caudata* Trin.
 4240. *Vitis tiliifolia* H. & B.
 4244. *Protium costaricense* (Rose) Engl.
 4246. *Gurania Seemanniana* Cogn.
 4247. *Trixis radialis* (L.) Kuntze
 4248. *Dryopteris serrata* (C v.) C. Chr.
 4251. *Eugenia Oerstediana* Berg.
 4252. *Terminalia chiriquensis* Pittier
 4253. *Posoqueria latifolia* (Lam.) R. & S.
 4254. *Securidaca sylvestris* Schlecht.
 4257. *Clethra lanata* M. & G.
 4258. *Pleonotoma variabile* (Jacq.) Miers
 4261. *Banisteria Beecheyana* (Juss.) C. B. Rob.
 4264. *Croton glabellus* L.
 4265. *Calonictyon aculeatum* (L.) House
 4266. *Urera laciniata* Wedd.
 4269. *Codonanthe crassifolia* (Focke) Morton
 4271. *Acalypha diversifolia* var. *leptostachya* (HBK.) Pax & Hoffm.
 4272. *Serjania mexicana* Willd.
 4273. *Davilla rugosa* Poir.
 4275. *Luehea speciosa* Willd.
 4277. *Zinowiewia costaricensis* Lundell
 4278. *Symplocos costaricana* Hemsl.
 4279. *Allophylus panamensis* Radlk.

- ✓ 4281. *Tetrathylacium costaricense* Standl.
✓ 4285. *Odontadenia puncticulosa* (A. Rich.) Pulle. New to N. America
✓ 4286. *Hasseltia floribunda* HBK.
✓ 4290. *Piptocarpha chontalensis* Baker
✓ 4291. *Acalypha diversifolia* var. *carpinifolia* (Poepp. & Endl.) Muell. Arg.
✓ 4293. *Clethra lanata* M. & G.
✓ 4295. *Vochysia hondurensis* Sprague
4298. *Polanum (Lycianthes) ferrugineum* (Bitt.)
✓ 4299. *Columnea affinis* Morton, n. sp. type
✓ 4302. *Phyllanthus Pittieri* Pax
✓ 4305. *Fischeria funebris* (Donn. Sm.) Blake
✓ 4313. *Trichilia montana* HBK.
✓ 4314. *Cordia polycephala* (Lam.) Johnst.
✓ 4321. *Byrsonima crassifolia* (L.) HBK.
✓ 4323. *Mendoncia Lindavii* Rusby
✓ 4325. *Phyllanthus* sp.
✓ 4326. *Sloanea guapilensis* Standl.
✓ 4327. *Turpinia paniculata* Vent.
✓ 4330. *Erigeron bonariensis* L.
4331. *Desmodium axillare* var. *Sintenisii* Urban
4336. *Tetrastylis lobata* Killip
4338. *Solanum rugosum* Dunal
✓ 4340. *Croton glandulosus* L.
✓ 4342. *Pavonia "axonii* Standl.
4344. *Desmodium axillare* var. *acutifolium* (Kuntze) Urban
✓ 4345. *Clethra lanata* M. & G.
✓ 4349. *Heliotropium indicum* L.
4350. *Alloplectus consanguineus* Morton, n. sp. type
✓ 4351. *Erythroxylon lucidum* var. *costaricense* (D. Sm.) Schulz
4353. *Drymonia spectabilis* (HBK.) Mart.
✓ 4355. *Heliotropium lagoense* (Warm.) Gürke
✓ 4357. *Cordia toqueve* Aubl.
✓ 4362. *Symplocos costaricana* Hemsl.
4369. *Polypodium fallax* Schl. & Cham.
✓ 4370. *Ardisia compressa* var. *crenata* Morton, var. nov. type
✓ 4371. " *Skutchii* Morton
✓ 4373. *Saracha procumbens* (Cav.) Ruiz & Pavon
4382. *Pityrogramma calomelaena* (L.) Link
✓ 4383. *Solanum (Lycianthes) synantherum* Sendtn.
4385. *Paullinia fasciculata* Radlk.
✓ 4388. *Solanum hirsutissimum* Standl. New to Costa Rica.
✓ 4390. *Eugenia Pittieri* Standl.
4391. *Eschatogramme panamensis* C. Chr.

New and Revised Identifications of Previous Sendings.

2168. *Solanum ochraceo-ferrugineum* (Dunal) Fernald (syn. *Solanum diversifolium* Schlecht.) Det. Morton.
2314. *Piper sesquimetrale* Trel. n. sp. type (not *P. sesquipedale*)
2364. *Solanum celsonii* Standl. & Morton n. sp. type (not *S. bicolor*)
2376. *Clusia oblanceolata* Rusby (not *Chrysanthamys* sp.) Det. Standley
2387. *Cestrum Baenitzii* Lingelsh. (not *C. laurifolium*) Det. Morton
2415. *Eupatorium vulcanicum* Benth.
2459. *Cestrum mariquitense* var. *latifolium* (Francey) Standl. & Morton
(not *Cestrum* n. sp.) Det. Morton
2519. *Hasseltia floribunda* HBK. (not *H. mexicana*) Det. Morton
2576. *Justicia Oerstedii* Leonard (not *J. glabra*) Det. Leonard
2670. *Lundia corymbifera* (Vahl.) Sandw. (not *Arrabidaea* sp.) Det. Sandwith.
2728. *Solanum ciliatum* Lam. (not *S. aculeatissimum*) Det. Standley & Morton
2773. *Phyla scaberrima* (A. L. Juss.) Moldenke (not *Lippia reptans*) Det. Moldenke
2862. *Capsicum tetramerum* Standl. & Morton n. sp. type (not *C. viscidum*)
2865. *Piper obiter-sericeum* Trel. n. sp. type (not *P. obitu-sericeum*)
2876. *Ipomoea Nil* (L.) Roth (not *I. hederacea*) Det. Morton.
2979. *Solanum accrescens* Standl. & Morton, n. sp. type
3012. *Justicia Skutchii* Leonard, n. sp. type.
3017. *Mikania eupatorioides* Blake (not *Eupatorium* sp.) Det. Blake
3032. *Alloplectus tetragonos* (Oerst.) Hanst. (not *A. elegantissimus* Morton ined.)
3041. *Mikania eupatorioides* Blake n. sp. type (not *Eupatorium* sp.)
3045. *Eupatorium vulcanicum* Benth. Det. Blake
3063. *Jacquemontia ciliata* Sandw. (not *J. menispermoides*). Det. Morton.
3071. *Crotalaria pilosa* var. *Skutchii* Senn, var. nov. type (not *C. pterocaulon*)
3119. *Centropogon palmanus* (D. Sm.) Wimmer. Det. McVaugh
3128. *Eupatorium angulare* Rob.
3158. *Gurania cfr. Pittieri* Cogn. Det. Morton
3165. *Metastelma filisepalum* Standl. Det. Morton
3169. *Cyclanthera Langei* Cogn. Det. Morton
3179. *Capsicum macranthum* Standl. & Morton
3211. *Utricularia Endresii* Rchb. Det. Morton
3213. *Vittaria lineata* (L.) J. E. Sm. Det. Maxon
3228. *Burmeistera Pittieri* Wimmer. Det. McVaugh
3231. *Cavendishia melastomoides* (Kl.) Hemsl. Det. A. C. Smith
3234. " *costaricensis* Hoer. Det. A. C. Smith
3245. *Disterigma Humboldtii* (Kl.) Nied. Det. A. C. Smith
3247. *Gaultheria gracilis* Small. " " "
3254. *Capsicum macrophyllum* (HBK.) Standl. Det. Standl. & Morton
3255. *Aegiphila aculeifera* Moldenke. Det. Moldenke
3280. *Solanum roblense* Bitter. Det. Standl. & Morton
3283. *Burmeistera Pittieri* Wimmer Det. McVaugh
3286. *Solanum parcebarbatum* Bitter Det. Standl. & Morton
3291. *Lippia costaricensis* Moldenke. Det. Moldenke
3313. *Capsicum stenophyllum* Morton & Standl. (not *C. macrophyllum*) Det. Standl. & Morton
3317. *Cavendishia Endresii* Hemsl. Det. A. C. Smith
3332. *Meliosma panamensis* Standl. New to Costa Rica. Det. Morton
3335. *Capsicum maculatum* Standl. & Morton, n. sp. type
3355. *Markea venosa* Standl. & Morton, n. sp. type
3358. *Buddleia americana* L. Det. Morton
3360. *Alloplectus multiflorus* (Oerst.) Hanst. (not *Drymonia scandens* Morton ined.)
3372. *Burmeistera eurobarbata* (Wimmer) Wimmer. Det. Morton
3373. *Cavendishia capitulata* D. Sm. Det. A. C. Smith

W.R.M. JUN 16 - 1941

Costa Rica Plants collected by Dr. Alexander F. Skutch

Additions and corrections to previous lists.

- Menim X 2220 Siparuna patelliformis Perkins (not *S. nicaraguensis*)
 Ciper 2271 Bleocharis geniculata (L.) R. Br. (not *B. interstincta*)
 Ifig X 2506 "achaerium longifolium Benth. (syn. *H. costaricanum*) det. Hochne
 2533 Cyphomandra costaricensis D. Sm.
 Kub 2533 Ladenbergia sericophylla Standl. (not *L. calycina*) det. Standl.
 Lut. 2562 Boehmeria ramiflora var. cuspidata Wedd. (not *B. ulmifolia*) det. Killip
 iron 2589 Guatteria recurvisepala Fries n. sp. (reported as *Guatteria* n. sp.?)
 Mocin 2609 Mollinedia discrepans Morton (not *M. Pinchotiana*)
 " " " " " "
 Phide ✓ 2658 Belotia Campbellii Sprague (not *B. macrantha*) det. Bullock
 2760 Polypodium enterosceroides Christ (not *P. percrassum*) det. Maxon
 " 2784 Jussiaea foliobracteata Munz ined. (not *J. peruviana* aff.) det. Munz
 2957 Pithecellobium longifolium (K. & B.) Standl. (not *P. Standleyi*)
 A. & L. 3085 Mollinedia discrepans Morton, n. sp. type (not *M. Pinchotiana*)
 Mex. 3151 Siparuna patelliformis Perkins (not *paralleloneura* or *Tonduziana*)
 " 3315 Inga latipes Pitt. (not *I. luculenta* n. sp. ined) 1 st. flowering
 material collected.
 Rigno X 3324 Schlegelia Ramizii var. macrandra Sandw. var. nov. det. Sandwith
 3636 Pteris paucinervata Féé (not *Pteris* n. sp.) det. Maxon
 B. & M. X 3884 Paragonia pyramidata (Rich.) Bur. (not *Cydiota sequinoctialis*) det. Sandwith
 " X 4153 " " " " " " " "
 " 4155 Jussiaea suffruticosa L. (erroneously reported as 4156)
 " 4156 Peperomia umbrigaudens Trel. n. sp. type (erroneously reported as 4157)



Costa Rica Plants collected by Dr. Alexander F. Skutch
(Acc. no. 148934)

5 th. consignment, second report.

Identified by C. V. Morton, U. S. National Museum,
July, 1940.

- 3387 Lozanella enantiophylla (D. Sm.) Killip & Morton
- 3388 Phytolacca icosandra L.
- 3389 Phytolacca rivinoides Kunth & Bouche'
- 3390 Rondeletia Cooperi Standl. ? ex char.
- 3393 Hydrangea Oerstedii Briq.
- 5400 Cissampelos fasciculata Benth.
- Rubus*
- 3402 Palicourea n. sp. ?
- 3414 Begonia sp.
- 3416 Sisymbrium tinctorium H. B. K.
- Annona*
- 3450 Guatteria oliviformis D. Sm. det. R. E. Fries
- 3439 Psychotria pitheccobia Standl.
- 3447 Smilax Engleriana Apt
- 3473 Rubus glaucus Benth.
- Rubus*
- 3475 Palicourea lasiorhachis Oerst.?
- 3478 Clematis dioica L.
- 3483 Clematis dioica L.
- Cyclanthus*
- 3486 Carludovica microphylla Oerst.
- ✓ 3496 Desmodium campyloclados Hemsl. det. B. Schubert
- Hibiscus*
- 3500 Hoffmannia pallidiflora Standl.
- 3502 Prunus cornifolia Koehne
- 3507 Anthurium porrectum Schott
- 3508 Holtonia n. sp.?
- ✓ 3518 Gymnogramma congesta Christ det. W. R. Maxon
- 3521 Myriocarpa longipes Liebm. det. E. P. Killip
- 3524 Rubus vulcanicola (D. Sm.) Rydb.
- ✓ 3532 Bomarea Porschiana Cuf. det. E. P. Killip
- ✓ 3559 Hymenophyllum intercalatum Christ
- 3562 Dioscorea Standleyi Morton
- 3564 Pithecellobium costaricense (B. & R.) Standl.
- 3565 Urera caracasana (Jacq.) Griseb. var. det. E. P. Killip
- ✓ 3568 Phenax hirtus (Sw.) Wedd. " " "
- 3569 Phoradendron gracilispicum Trel.
- Pomaceae*
- 3570 Dendrophora biserrula Eichl.
- 3585 Drimys Winteri Forst.
- Hibiscus*
- 3587 Hoffmannia longipetiolata Polak.?
- 3591 Passiflora brevipila Killip n. sp. type
- ✓ 3592 Pilea Pittieri Killip det. E. P. Killip
- 3593 Anthurium pallens Schott
- 3595 Psychotria sp.
- Sapindaceae*
- 3597 Siparuna grisea Perkins
- 3598 Siparuna paralleloneura Perkins
- 3599 Siparuna patelliformis Perkins
- 3602 Urera caracasana (Jacq.) Griseb. var. det. E. P. Killip
- 3603 Boehmeria ramiflora var. cuspidata Wedd. " " "

- ac 3606 *Persea Schiedeana* Nees
3607 *Lozanella enantiophylla* (D. Sm.) Killip & Morton
✓ 3613 *Hymenophyllum costaricense* v.d.B.
Erica 3626 *Cavendishia quereme* (H.B.K.) B. & H. det. A. C. Smith
3627 *Gynandropsis pulcherrima* Standl.
✓ 3639 *Hymenophyllum* sp. Perhaps new.
3640 *Stellaria ovata* Willd.
3642 *Cissampelos fasciculata* Benth.
3644 *Anthurium* sp.
✓ 3645 *Borreria laevis* (Lam.) Griseb.
✓ 3646 *Pilea parietaria* (L.) Blume det. E. P. Killip
3652 *Anthurium joseanum* Engl.
3657 *Anthurium subcordatum* Schott
3662 *Gynandropsis pulcherrima* Standl.
✓ 3665 *Anthurium scandens* (Aubl.) Engl.
3669 *Rubus abundus* Rydb.
3685 *Diplazium macrophyllum* Desv.
3687 *Anthurium Pittieri* Engl.
3689 *Hoffmannia hondurensis* Standl.?
Rubi 3690 *Coussarea Austin-Smithii* Standl.
3692 *Diplazium obscurum* Christ
3694 *Anthurium Pittieri* Engl.
3702 *Trema micrantha* (L.) Blume
3703 *Juncus microcephalus* H. B. K.
3705 *Inga laurina* (Sw.) Willd.
3706 *Anthurium protensum* Schott
3711 *Sickingia* n. sp.?
Fabaceae 3720 *Cephaelis axillaris* Sw.
3721 *Citharexylum caudatum* L.
3723 *Mucuna urens* (L.) DC.
3725 *Palicourea chiriquina* Standl.?
3736 *Phoebe Pittieri* Mez
3737 *Lindsaea horizontalis* Hook.
3745 *Ocotea* sp.
3748 *Uncinia hamata* (Sw.) Urban
Urticaceae 3750 *Urtica alceifolia* Gaud. det. E. P. Killip
3755 *Ocotea pentagona* Mez
3756 *Psychotria Torresiana* Standl.
3763 *Inga latipes* Pittier
Rosaceae 3770 *Rubus impressus* Morton n. sp. type
3774 *Elaphoglossum tectum* (H. & B.) Moore
3777 *Symplocos Austin-Smithii* Standl.? ex char.
3778 *Brunellia costaricensis* Standl.
3780 *Inga latipes* Pittier
Malpighiaceae 3782 *Dichapetalum Donnell-Smithii* Engl.
3784 *Struthanthus marginatus* (Desr.) Blume
3788 *Dichapetalum Donnell-Smithii* Engl.
Tiliaceae 3789 *Roupala glaberrima* Pittier

W.R.M. 1940

Costa Rica Plants collected by Dr. Alexander F. Skutch
(Acc. no. 151709)

6th consignment, second report

Acanthaceae identified by E. C. Leonard, Annonaceae by R. E. Fries,
the remainder by G. V. Morton, U. S. National Museum,
July, 1940

- 3799 *Justicia metallica* Lindau
- 3800 " " "
- 3813 *Siparuna patelliformis* Perkins
- 3815 *Cassia* n. sp.? = 2428
- 3822 *Athyrocarpus rufipes* (Seub.) Standl.
- 3827 *Casearia sylvestris* Sw.
- 3833 *Phthirusa pyrifolia* (H. B. K.) Eichl.
- 3834 *Inga confusa* B. & R.
- 3836 *Nectandra globosa* (Aubl.) Mez
- 3837 *Oryctanthus spicatus* (Jacq.) Eichl.
- 3839 *Euphorbia hirta* L.
- 3842 *Jacobinia macrantha* (Benth.) Hemsl.
- 3843 *Justicia pectoralis* Jacq.
- 3844 *Phoebe neurophylla* Mez & Pitt.
- 3851 *Blechum costaricense* Oerst.
- 3853 *Euphorbia graminea* Jacq.
- 3860 *Canavalia panamensis* Piper?
- ✓ 3869 *Desmodium axillare* var. *Sintenisii* Urban det. B. Schubert
- 3870 *Trichomanes diversifrons* (Bory) Mett. det. W. R. Maxon
- 3872 *Trichomanes rigidum* Sw.
- 3879 *Trema micrantha* (L.) Blume
- 3883 *Psychotria psychotriifolia* (Seem.) Standl.
- 3889 *Stellaria ovata* Willd.
- 3891 *Tonina fluviatilis* Aubl.
- ✓ 3893 *Desmodium scorpiurus* (Sw.) Desv. det. B. Schubert
- 3894 *Centrosema pubescens* Benth.
- 3902 *Cyathula achyranthoides* (H.B.K.) Moq.
- 3904 *Psychotria viridis* R. & P.
- 3906 *Nectandra* sp.
- 3909 *Psychotria cuspidata* Bredem.
- ✓ 3915 *Desmodium Wydlerianum* Urban det. B. Schubert
- 3915 *Inga punctata* Willd.
- 3916 *Xylopia frutescens* Aubl.
- 3917 " *aromatica* (Lam.) Mart.
- 3918 *Calopogonium mucunoides* Desv.
- 3932 *Oldenlandia herbacea* (L.) DC.
- 3936 *Indigofera mucronata* Spreng.
- 3940 *Lonchocarpus guatemalensis* Benth.
- 3941 *Aphelandra Sinclairiana* Nees
- 3942 *Chaetochlamys panamensis* Lindau
- 3947 *Portulaca oleracea* L.
- 3948 *Hirtella americana* L. (syn. *H. mollicoma* H.B.K.)
- 3953 *Machaerium acanthothrysus* Pittier
- 3955 *Psychotria marginata* Sw.
- 3958 *Cissampelos tropaeolifolia* DC.
- 3972 *Borreria ocymoides* (Burm.) DC.
- 3979 *Odontonema strictum* (Nees) Kuntze

- Thul.* 3981 *Condaminea corymbosa* (R. & P.) DC. New to Costa Rica.
met. ann. 3985 *Siparuna patelliformis* Perkins
not ad. 3986 *Cecropia mexicana* Nemsl.
Rubi 3995 *Sommera grandis* (Bartl.) Standl.
leg. 3996 *Calopogonium caeruleum* Benth.
Pomad. 3999 *Heberantha reniformis* R. & P.
4001 *Canna lutea* Mill.
Asclepiad. 4006 *Callisia monandra* (Sw.) Schult.
4009 *Psychotria brachiata* Sw.
4011 *Ficus costaricensis* (Liebm.) Miq.
Dioscorea 4016 *Dioscorea convolvulacea* var. *glabra* Uline
Struthanthus 4023 *Struthanthus polystachyus* (R. & P.) Blume
4024 *Erythrina Berteroana* Urban
4025 *Justicia Oerstedii* Leonard
4031 *Rhynchosia pyramidalis* (Lam.) Urban
4036 *Justicia pectoralis* Jacq.
4038 *Tetrapteris* sp.? Fruit necessary
4042 *Phoebe costaricana* Mez & Pitt. Previously known only from type.
4047 *Holtonia myriantha* Standl.
4048 *Smilax panamensis* Morong
4049 *Meliosma grandiflora* Morton, n. sp. type
4059 *Strychnos* sp. Perhaps new.
4060 *Justicia pectoralis* Jacq.
4069 *Euphorbia hypericifolia* L.
Hemidiodia 4075 *Hemidiodia ocytinfolia* (Willd.) Schum.
4083 *Pourouma aspera* Trecul.
4086 *Ilex Valerii* Standl.?
4087 *Centrosema virginianum* (L.) Benth.
4096 *Coccocypselum glabrum* DC. New to Costa Rica.
Palicoura 4098 *Palicoura triphylla* DC.
Xyrid 4103 *Xyris macrocephala* Vahl
4111 *Inga marginata* Willd.
Bursera 4116 *Sommera grandis* (Bartl.) Standl.
4117 *Dicliptera unguiculata* Nees
4120 *Caesalpinia pulcherrima* L.
4125 *Schlegelia Ramizii* var. *costaricensis* Sandw. var. nov. type
4127 *Lindsaea lancea* (L.) Bedd.
4130 *Hirtella americana* L.
Moraceae 4136 *Siparuna nicaraguensis* Nemsl.
4140 *Dicliptera Skutchii* Leonard
4142 *Karamea suerrensis* D. Sm.
4148 *Rondeletia* n. sp. ?
4150 *Capparis discolor* D. Sm.
4152 *Machaerium floribundum* Benth.
4164 *Ficus Tenduzii* Standl.
4165 *Psychotria Valeriana* Standl.? ex char.
4166 " *brachiata* Sw.
4168 *Hippocratea volubilis* L. det. A. C. Smith
4172 *Nectandra* sp.
4182 *Nectandra glabrescens* Benth.
4189 *Hamelia patens* Jacq.
4194 *Mauria birringo* Tul.
4201 *Hymenophyllum fuccoides* Sw.
4203 *Dicliptera unguiculata* Nees

- Angeles* 4204 *Mauria glauca* D. Sm.
Araceae 4207 *Barica gracilis* Herb.
4209 *Ruellia tetrastichantha* Lindau
4212 *Aphelandra Tonduzii* Leonard
Oreociss 4215 *Sciodaphyllum systylum* D. Sm.
4214 *Poikilacanthus macranthus* Lindau
Rubi 4215 *Rudgea Skutchii* Standl.
4217 *Capparis discolor* D. Sm.
4221 *Bioscorea cyanistica* D. Sm.
4223 *Hondeletia buddleoides* Benth.
Melast. 4225 *Pourourma aspera* Trecul.
Celi 4228 *Oncidium ascendens* Lindl. det. O. Ames
4232 *Inga multijuga* Benth.
Scroph. 4233 *Mendoncia Lindavii* Rusby
Anon. 4234 *Guttereria recurvisepala* Fries, n. sp. type
4236 *Alternanthera laguroides* Standl.
4239 *Acacia Farnesiana* (L.) Willd.
Nymphaeac. 4241 *Virola Koschnyi* Warb.
Polygon. 4242 *Triplaris americana* L.

W.H.W. JUL 9 - 1940

Costa Rica Plants collected by Dr. Alexander F. Skutch
(Acc. no. 158072)

7th consignment, second report.

Identified by C. V. Morton, U. S. National Museum,
July 1940.

- Leg. 4245 *Entada gigas* (L.) Fenzl. & Hendle
Lam. 4250 *Pterocarpus Hayesii* Benth.
Lam. 4255 *Tamarindus indica* L.
Tilia 4256 *Coussapea Bonnelli-Smithii* Mildbr.
Myrsinac 4260 *Virula Koschnyi* Barb.
Morac 4262 *Coussapea Bonnelli-Smithii* Mildbr.
Ficus 4263 *Ficus colubrinae* Standl.
Morac 4267 *Coussapea Bonnelli-Smithii* Mildbr.
Leg. 4268 *Machaerium marginatum* Standl.
Succ. 4270 *Ocotea cernua* (Nees) Mez
Iuge 4274 *Pterocarpus Hayesii* Benth.
Tiliac 4283 *Cissampelos pareira* L.
Inga 4283 *Inga marginata* Willd.
Celtis 4292 *Celtis iguansea* (Jacq.) Sargent
Rub. 4294 *Ramelia patens* axillaris Sw.
Leg. 4298 *Pithecellobium longifolium* (H. & A.) Standl.
Taur. 4303 *Ocotea ira* Mez & Pitt.
Flac. 4304 *Casearia javitensis* R.B.K.
Sapind. 4311 *Siparuna guianensis* Aubl.
Vitaceae 4315 *Citharexylum Cooperi* Standl. det. N. Moldenke
Leg. 4316 *Machaerium dariense* Pittier. New to Costa Rica
Annon. 4317 *Mollinia Standleyi* R. & Fries det. Fries
Psychotria 4318 *Psychotria horizonthalix* Sw.
Rub. 4319 *Ramelia patens* Jacq.
Rubi 4322 *Rudbeckia cornifolia* (H. & A.) Standl.
Leg. 4324 *Stryphnodendron excelsum* Harms
Euphorbiac 4326 *Nectandra* sp.
4329 *Phoebe neurophylla* Mez & Pittier
Dioscoreac 4330 *Xylophia aromaticum* (Lam.) Mart. det. Fries
Lamiac 4340 *Cymbopetalum costaricense* (B. Sm.) Fries det. Fries
4347 *Psychotria Valziana* Standl. ? ex char.
Rubi 4356 *Declieuxia fuscicosa* var. *mexicana* (DC.) Standl.
4363 *Euphorbia thymifolia* L.
Gramineac 4366 *Setaria geniculata* (Lam.) Beauv.
4372 *Capparis* sp. aff. *discolor* B. Sm.
Succul. 4374 *Nectandra panamensis* Mez
4375 *Faspalum plicatulum* Michx. det. A. Chase
Araliac 4377 *Croton Skutchii* Standl. n. sp. type

Verde
1941

1941

Costa Rican plants collected by A. F. Skutch

Corrected identifications

- 223 - ✓ 2173. *Tibouchina longifolia* (Vahl) Baill. (not *T. Bourgeauii*) det. Gleason C.R. 64
- 253 - ✓ 2292. *Lippia costaricensis* Moldenke n. sp. type (not *L. myriocephala*) III 64
- 223 - ✗ 2477. *Miconia punctata* (Desr.) D. Don (not *M. habrolepis*) det. Gleason C.R. 64
- 223 - 2503. *Conostegia subcrustulata* Triana (not *Miconia* sp.) det. Gleason " "
- 128 - ✗ 2506. *Machaerium longifolium* Benth. (syn. *M. costaricanum* Pitt.) det. Hoehne II-3
- 252 - 2509. *Cordia eriostigma* Pitt. (not *C. glabra*) det. Johnston C.R. 64
- 223 - ✗ 2582. *Conostegia xalapensis* (Bonpl.) Don (syn. *C. lanceolata*) det. Gleason C.R. 64
- S 293. ✓ 2935. *Tradescantia multiflora* Swartz New to Costa Rica (not *T. cumanensis*) det. Morton
- " ✓ 2947. *Eleocharis Sellowiana* Kunth (not *E. Pittieri*) det. Svenson
- " ✓ 3049. *Eleocharis Sellowiana* Kunth (not *E. Pittieri*) det. Svenson
- 223 - ✗ 3101. *Leandra melanodesma* (Naud.) Cogn. (not *L. costaricensis*) det. Gleason C.R. 64
- ✓ 3246. *Telipogon setosus* Ames n. sp. type (reported as *Telipogon* sp.)
- 253 - 3297. *Lippia costaricensis* Moldenke Reported erroneously as 3291. II-7
- 252 - 4132. *Cordia eriostigma* Pitt. (not *C. glabra*) det. Johnston C.R. 64
- 270 ✓ 4165. *Psychotria solitudinum* Standl. (not *P. Valeriana*?) det. Standley II-7
- 253 ✓ 4224. *Stachytarpheta mutabilis* var. *violacea* Moldenke var. nov. type III-14
(not *S. Frantzii* Polak)
- 147 - 4325. *Phyllanthus Skutchii* Standl. n. sp. type (reported as *Phyllanthus* sp.) II-59
- 172 - 4326. *Sloanea palmana* Standl. (reported as *S. guapilensis*) det. Standley II-59
- 147 - 4340. *Croton lobatus* L. (reported as *C. glandulosus* L.) det. Standley II-59
- 270 - 4347. *Psychotria solitudinum* Standl. n. sp. type (reported as *P. Valeriana*?) II-7
- 134 - 4847. *Erythroxylon Skutchii* Standl. n. sp. type (reported as *E. amplum* Benth.) 28

Costa Rican plants collected by A. F. Skutch

4th to 8th Consignments, Supplementary report

Melastomaceae identified by H. A. Gleason, Annonaceae by R. E. Fries,
Apocynaceae by Robert E. Woodson, Eleocharis by H. Svenson,
Rubiaceae and some others by P. C. Standley, the remainder
by C. V. Morton, December 1940.

- ✓3413. Blakea anomala D. Sm.
✓3417. Miconia glaberrima (Schl.) Naud.
✓3556. Rauwolfia sarapiquensis Woodson n. sp. type
3563. Conostegia Pittieri Cogn.
✓3768. Miconia costaricensis Cogn.
✓3892. Aciotis rostellata (Naud.) Triana
✓3905. Miconia caudata DC.
✓3964. Centradenia Maxoniana Gleason
✓4020. Selaginella sp.
✓4033. Miconia ibaguensis (Bonpl.) Triana
✓4044. Henriettella Seemannii Naud.
✓4057. Miconia longifolia (Aubl.) DC.
✓4072. Miconia Matthaei Naud.
✓4081. Miconia hondurensis D. Sm.
✓4084. Miconia chamissois Naud.
✓4088. Clidemia rubra (Aubl.) Mart.
✓4092. Miconia pteropoda Benth.
✓4094. Clidemia neglecta D. Don
✓4099. Miconia borealis Gleason
✓4101. Acisanthera recurva (L. C. Standley Rich.) Griseb.
✓4102. Miconia rubiginosa (Bonpl.) DC.
✓4104. Eleocharis pachystyla (C. Wright) Clarke
✓4108. Miconia pteropoda Benth.
✓4122. Miconia punctata (Desr.) D. Don
✓4154. Miconia hondurensis D. Sm.
✓4159. Conostegia Bernoulliana Cogn.
✓4160. Miconia dodecandra (Desr.) Cogn.
✓4162. Henriettella flavescentia (Aubl.) Triana
✓4171. Guatteria dolichopoda D. Sm.
✓4175. Conostegia xalapensis (Bonpl.) D. Don (C. lanceolata Cogn.)
✓4205. Centradenia grandifolia (Schl.) Endl.
✓4249. Dryopteris opposita (Sw.) Urban
✓4259. Miconia scorpioides (E. & S.) Naud.
✓4275. ~~Miconia scorpioides~~ (E. & S.) Naud.
✓4276. Miconia argentea (Sw.) DC.
✓4280. Calyptrella cycliophylla D. Sm.
✓4289. Miconia laevigata (L.) DC.
✓4297. Miconia impetiolaris (Sw.) D. Don
✓4300. Neea psychotrioides D. Sm. det. Standley
✓4312. Dichromena leucocephala Mx. det. Standley
✓4320. Miconia Schlimii Triana
✓4337. Hasseltia macroterantha Standl. n. sp. type
✓4348. Miconia laevigata (L.) DC.
✓4352. Miconia Matthaei Naud.
✓4354. Tassadia recurva Rusby det. Standley

- ✓4358. *Miconia dodecandra* (Desr.) Cogn.
✓4360. *Henriettea succosa* (Aubl.) DC.
4361. *Polypodium* n. sp.
✓4368. *Ophioglossum reticulatum* L.
✓4381. *Dryopteris opposita* (Sw.) Urban
✓4386. *Neea psychotrioides* D. Sm. det. Standl.
✓4387. *Miconia impetiolaris* (Sw.) D. Don
4567. *Garcilassa rivularis* P. & E. det Standl.
4588. *Gonzalagunia ovatifolia* (D. Sm.) Rob.
4589. *Psychotria mima* Standl. n. sp. type
4634. *Sommerra grandis* (Bartl.) Standl.
4640. *Miconia punctata* (Desr.) D. Don
4642. *Manettia barbata* Oerst.
4684. *Alfaroa costaricensis* Standl.
4685. " " "
4690. *Centradenia Maxoniana* Gleason
4731. *Miconia caudata* DC.
4739. *Mandevilla hirsuta* (Rich.) K. Sch.
4747. *Gonzalagunia exaltata* Standl. type
4748. *Hamelia magnifolia* (Wernh.)
4758. *Calatola costaricensis* Standl.
4763. *Psychotria marginata* Sw.
4764. *Psychotria brachiata* Sw.
4791. *Topoea Durandiana* Cogn.
4793. *Villaresia costaricensis* D. Sm.
4800. *Tabernaemontana longipes* D. Sm.
4808. *Clidemia hirta* (L.) D. Don
4833. *Miconia impetiolaris* (Sw.) DC.
4861. *Psychotria Berteriana* DC.
4867. *Miconia Schlimii* Triana
4882. *Stemmadenia Donnell-Smithii* (Rose) Woods.
4889. *Miconia pteropoda* Benth.
4893. *Clidemia sessiliflora* var. *angustifolia* Cogn.
4894. *Blakea gracilis* Hemsl.
4897. *Randia subcordata* Standl.
4920. *Clidemia dentata* D. Don
4924. *Miconia laevigata* (L.) DC
4925. *Randia armata* (Sw.) DC.
4926. *Posoqueria latifolia* (Rudge) R. & S.
4935. *Hoffmannia Tonduzii* Standl.
4948. *Ossaea aff. diversifolia*
4949. *Psychotria grandis* Sw.
4950. *Chiococca alba* (L.) Hitchc.

Omitted from above

4843. *Conostegia* sp.
4941. *Conostegia* sp.
4952. *Topoea* sp.

W.R.M. JBN 8 1940

Costa Rican Compositae collected by A. F. Skutch

(5th Consignment, supplementary report)

(Accession no. 148934)

Identified by S. F. Blake, December 1940.

- ✓ 3395. *Cirsium pinnatisectum* (Klatt) Petrak
- ✓ 3398. *Baccharis trinervis* (Lam.) Pers.
- ✓ 3399. *Schistocarpha* sp.
- ✓ 3440. *Senecio streptocephalus* Greenm.
- ✓ 3443. *Baccharis trinervis* (Lam.) Pers.
- ✓ 3444. *Archibaccharis torquis* Blake
- ✓ 3445. *Gnaphalium roseum* HBK (?)
- ✓ 3446. *Vernonia canescens* HBK
- ✓ 3456. *Eupatorium hymenophyllum* Klatt
- ✓ 3467. *Gnaphalium spicatum* Lam.
- ✓ 3470. *Eupatorium anisochromum* Klatt
- ✓ 3487. " *pycnocephalum* Less.
- ✓ 3488. *Liabum polyanthum* Klatt
- ✓ 3490. *Zexmenia virgulta* Klatt
- ✓ 3503. *Eupatorium aschenbornianum* Schauer
- ✓ 3505. *Mikania skutchii* Blake
- ✓ 3544. *Otopappus verbesinoides* Benth.
- ✓ 3550. *Eupatorium pittieri* Klatt
- ✓ 3555. *Alomia microcarpa* (Benth.) Robinson
- ✓ 3615. *Eupatorium standleyi* Robinson
- ✓ 3619. *Cirsium costaricense* (Polak.) Petrak
- ✓ 3622. *Jungia ferruginea* L. f.
- ✓ 3655. *Mikania* sp.
- ✓ 3696. *Liabum bourgeaui* Hieron.
- ✓ 3699. *Eupatorium thieleanum* Klatt
- ✓ 3700. *Senecio megaphyllus* Greenm.
- ✓ 3786. *Eupatorium parasiticum* Klatt

N.R.M. DEC 26 1940

Guatemala ferns, collected by A. F. Skutch

Identifications by C. A. Weatherby

791. *Cheilanthes lendigera* Sw.
793. *Elaphoglossum Schiedei* (Kze.) Moore
794. "
795. *Cheilanthes intramarginalis* (Kaulf.) Hook.
796. *Elaphoglossum Schiedei* (Kze.) Moore
799. *Notholaena bonariensis* (Willd.) C. Chr.
800. *Polystichum distans* Fourn.
802. *Elaphoglossum plicatum* (Cav.) C. Chr.
805. *Pellaea cordata* (Cav.) J. Sm.
806. " *ternifolia* (Cav.) Link
807. *Notholaena bonariensis* (Willd.) C. Chr.
814. *Woodsia mollis* (Kaulf.) J. Sm.
818. *Elaphoglossum*
825. *Asplenium praemorsum* Sw.
840. *Cystopteris fragilis* (L.) Bernh.
865. *Plecosorus speciosissimus* (A. Br.) Moore
875. *Pteris orizabae* M. & G.
884. *Asplenium pimpinellifolium* Fée & Schaffn.
886. *Asplenium achillaeifolium* (M. & G.) Liebm. var. *grande* (Fée) Baker
902. *Trichomanes capillaceum* L.
903. *Marattia excavata* Underw.?
904. *Polypodium cultratum* Willd.
907. *Trichomanes Kunzeanum* Hook. (*T. mexicanum* v. d. B.)
920. *Dryopteris*
939. *Hymenophyllum hirsutum* Sw. sens. lat.
940. *Vittaria lineata* (L.) Sm.
957. *Rhipidopteris peltata* (Sw.) Schott
973. *Dennstaedtia exaltata* (Kze.) Hieron.
977. *Asplenium alatum* H. & B.
983. *Blechnum ensiforme* (Liebm.) C. Chr.
984. *Elaphoglossum*
1047. *Gleichenia Underwoodiana* (Maxon) C. Chr.
1048. *Alsophila quadripinnata* (Gmel.) C. Chr.
1053. *Adiantum Capillus-Veneris* L.
1058. *Gleichenia Wancroftii* Hook.
1089. *Llavea cedifolia* Lag.
1081. *Selaginella cuspidata* Link
1084. *Lycopodium complanatum* L. var. *validum* Weatherby
1095. *Cheilanthes membranacea* (Davenp.) Maxon
1102. *Botrychium pusillum* Underw.
1118. *Anemia guatemalensis* Maxon
1141. *Pellaea rigida* (Sw.) Hook.
1149. *Notholaena sinuata* Kaulf.
1160. *Dryopteris denticulata* (Sw.) Ktze. f. *jucunda* (Fée) C. Chr.
1162. *Cyathea suprastrigosa* (Christ) Maxon
1185. *Elaphoglossum piloselloides* (Presl) Moore
1218. *Botrychium pusillum* Underw.
1295. *Polypodium cryptocarpon* Fée
1325. *Lycopodium linifolium* L.
1352. *Adiantum platyphyllum* Sw.

1369. *Adiantum pulverulentum* L.
 1375. *Gleichenia bifida* (Willd.) Spreng.
 1385. *Asplenium abscissum* Willd. sens. lat.
 1410. *Cyathea mexicana* Schlecht. & Cham.
 1466. *Nephrolepis pectinata* (Willd.) Schott
 1467. *Polypodium plebejum* Cham. & Schlecht. var. *Cooperi* Baker
 1478. *Adiantum fructuosum* Kze.
 1492. *Odontosoria guatemalensis* Christ
 1498. *Adiantopsis radiata* (L.) Féé
 1526. *Polypodium plebejum* Cham. & Schlecht. var. *Cooperi* Baker
 1531. *Cheilanthes lendigera* (Cav.) Sw.
 1596. *Pellaea atropurpurea* (L.) Link
 1604. *Anemia hirsuta* (L.) Sw.
 1664. *Hymenophyllum myriocarpum* Hook.?
 1669. *Polypodium Friedsrichsthalianum* Kze.
 1698. *Cyathea Turckheimii* Maxon
 1757. *Woodwardia spirulosa* Mark. & Gal.
 1758. *Dryopteris patula* (Sw.) Underw. var. *chaerophylloides* (Moritz) C. Chr.
 1759. *Elaphoglossum piloselloides* (Presl) Moore
 1789. *Lindsaea lancea* (L.) Bedd.
 1792. *Asplenium auritum* Sw.
 1795. *Tectaria heracleifolia* (Willd.) Underw.
 1799. *Hymenophyllum ciliatum* Sw.
 1804. *Oleanandra articulata* (Sw.) Presl
 1805. *Polybotrya cervina* (L.) Kze.
 1807. *Saccoloma elegans* Kaulf.
 1808. *Danthonia elliptica* Sw.
 1823. *Polypodium fraxinifolium* Jacq.
 1833. *Cochlidium rostratum* (Hook.) Maxon
 1843. *Polypodium angustum* (H. & B.) Liebm.
 1850. *Lycopodium pithyodes* Cham. & Schlecht
 1853. *Equisetum giganteum* L.
 1861. *Lonchitis hirsuta* L.
 1864. *Pteris mexicana* (Féé) Fourn.
 1964. *Notholaena simuata* Kaulf.
 2013. *Polypodium crassifolium* L.
 s.n. *Dryopteris falcata* (L.) C. Chr.

1940.

Bred.

SCROPHULARIACEAE COLLECTED BY ALEXANDER F. SKUTCH
in GUATEMALA

Berendtiella rugosa (Benth.) -- 1134

Castilleja attenuata Pennell, ^{TYPE} -- 1251 ✓

Hemichaena fruticosa Benth. -- 1172

Lamourouxia aperta Pennell, ^M -- 1252

" *pedunculata* Pennell ^S -- 1519

" *skutchii* Pennell, ^S -- 1897

" *viscosa* H.B.K. -- 1151

Leucocarpus perfoliatus (H.B.K.) Benth -- 1488

Penstemon gentianoides (H.B.K.) -- 828, 1250,

Russelia crenatifolia Pennell, ^M -- 951

" " " -- 1448, 2085

" *flavoviridis* Blake -- 1770

Sibthorpia repens (L.) Kuntze -- 1088

Stemodia skutchii Pennell -- 1391

~~(Funders)~~ 4438, 4267

9

A. F. Skutch - Ecuador

Grasses, det. J. R. Swallen

Reported March 5, 1940

- 4392. *Lasiacis ruscifolia* (H.B.K.) Hitchc.
- 4397. *Lasiacis divaricata* (L.) Hitchc.
- 4412. *Ichnanthus candidans* (Nees) Doell.
- 4413. *Ichnanthus axillaris* (Nees) H. & C.
- 4414. *Panicum pilosum* Sw.
- 4423. *Pseudechinolaena polystachya* (H.B.K.) Stapf.
- 4452. *Ichnanthus pallens* (Swartz) Munro.
- 4454. *Pseudechinolaena polystachya* (H.B.K.) Stapf.
- 4460. *Lasiacis sorghoides* (Desv.) H. & C.
- 4471. *Arthoclada laxa* (Rich.) Beauv.
- 4535. *Pharus virescens* Doell.